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AAI REPORT NO. R60011-00013

# AUTOMOTIVE TEST RIG FINAL DESIGN REPORT

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**JANUARY 1986** 

VOLUME II - CONTROL SYSTEM

prepared for

U.S. NAVY DAVID TAYLOR NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER CODE 1240, MARINE CORPS PROGRAMS OFFICE BETHESDA, MARYLAND 20084

CONTRACT NO. N00167-84-C-0022

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APPROVED BY M.B. Hodges, III

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This report documents the des	lgn and fabricat	ion of a tra	cked automo	tive te	st rig vehicle	
developed to investigate the	feasibility of a	dvanced auto	motivecompo	ments fo	or potential	
use in future high water speed	i amphibians. A	dvanced comp	onents incl	uded in	the design are	
a hydrostatic drive train for				matic s	uspension system	
two speed final drives and micro computer control systems.						
Volume T includes detailed de	sorintions of th	a warione te	er had made	revote	me and com-	
Volume I includes detailed descriptions of the various test bed major systems and com- ponents along with engineering analyses to support their design development. Characteris-						
tics of major test bed elements are defined along with overall test bed characteristics.						
Estimated land and water performance and weight and mass properties are also provided for						
the test bed.						
Volume II provides the details of the hydrostatic drive train control system.						
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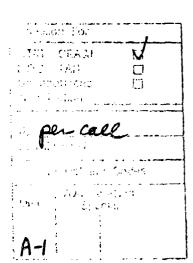
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Distribution Statement A is correct for this report.
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#### 1.0 INTRODUCTION

This volume documents the technical aspects of the ATR Automotive control system and associated software. The information contained herein is an edited presentation of Southwest Research Institute's Final Report on the Control System Design for the Automotive Test Rig (ATR)

Vehicle (SwRI-8284), December 1985. The report was prepared by Messrs.

Gary L. Stecklein and Benjamin A. Treickel of the Department of Engine and Vehicle Research, Southwest Research Institute, San Antonio, Texas.

This volume addresses the control system design (hardware and software), auxiliary components (Terra Computer and Miltope Recorder), and transmission testing. Appendix A presents the detailed control system software listing and Appendix B provides details of the control circuits.

#### 2.0 ATR CONTROL SYSTEM DESCRIPTION

Table 2.0-1 provides a listing of all of the operator input and vehicle feedback signals, and control signals used in the ATR vehicle. This table also indicates the pin number where these signals originate or terminate on the SC-1 computer. These devices can be categorized into the following major types:

- o Analog-In Signals
- o Frequency-In Signals
- o Digital Input Signals
- o Pulse Width Modulated (PWM) Output Signals
- o Digital Output Signals

These signals are discussed according to their category in the following section.

#### 2.1 SC-1 COMPUTER INPUT SIGNALS

### 2.1.1 Operator Input Controls

The operator input signal devices consist of the steering mechanism, accelerator pedal, brake pedal, transmission selector, mode selector, and gear selector. Analog signals are provided by the steering, accelerator and brake devices. These signals are generated by potentiometers mounted in each of these devices. The input device displacement-to-signal generation-to-computer software integer value relationships are presented in Figures 2.1-1, 2.1-2 and 2.1-3 for these devices.

The mode selector, transmission selector, and gear selector provide digital input signals to the computer. Each device is mechanically interlocked so that only one input signal can be obtained. These signals are received by the SC-1 computer through a Parallel I/O card on card J18.

#### 2.1.2 Speed Feedback Signals

Rotational speed feedback signals are obtained from the engine, the hydrostatic land drive motors, the spruckets, and the waterjet motors. These signals are used in the software to make power and performance calculations as well as during shifting operations where these speed signals are used to synchronize motor-to-clutch speeds.

These speeds are obtained through Frequency to Digital (F/D) converters. In principle these converters determine the number of internal

## Table 2.0-1. Imput/Output Signal Listing by Pin Number for the SC-1 Computer

```
Pulse Width Modulated (PWM) Output Signal
J7
 P1
        Desired Low Clutch Valve Yoltage (DLCVV)
        Desired High Clutch Valve Voltage (DHCVV)
 P2
 Р3
        Desired Engine Speed (DES)
 P4
 P5
        Ground
        Pulse Width Modulated (PWM) Output Signal
J8
 P1
        Port Forward Transmission Valve Voltage (PFTVV)
 P2
        Starboard Forward Transmission Valve Voltage (SFTVV)
 р3
        Port Aft Transmission Valve Voltage (PATVV)
 P4
        Starboard Aft Transmission Valve Voltage (SATVV)
  P5
        Ground
J9
        Digital to Analog Converter
        Read Engine Speed (RES)
 P1
 P4
        Read Port Motor Speed (RPMS)
 P5
        Read Starboard Motor Speed (RSMS)
 P9
        Computer Ground
 P10
        Read Port Sprocket Speed (RPSS)
 P11
        Read Starboard Sprocket Speed (RSSS)
J11
        Frequency to Digital (F/D) Converter
  P11
        Ground
  P16
        Input Actual Port Motor Speed (IAPMSP)
 P17
        Input Actual Starboard Motor Speed (IASMSP)
 P18
        Input Actual Port Sprocket Speed (IAPSSP)
 P19
        Input Actual Starboard Sprocket Speed (IASSSP)
```

Table 2.0-1. Input/Gutput Signal Listing by Pin Number for the SC-1 Computer (Continued)

```
Frequency to Digital (F/D) Converter
J12
        Ground
  P11
        Input Actual Port Waterjet Speed (IAPWSP)
  P16
        Input Actual Starboard Waterjet Speed (IASWSP)
  P17
        Input Actual Engine Speed (IAENSP)
  P18
  P19
        Analog to Digital (A/D Converter
J13
        Input Desired High Motor Speed (IDHMSP)
  P1
        Input Desired High Motor Speed Ratio (IDHMSR)
  P2
        Input Desired Turn Ratio (IDTRNR)
  P3
         Input Port Bucket Angle (IAPBCN)
  P4
         Input Starboard Bucket Angle (IASBCN)
  P5
   P6
   P7
   Р8
   P9
         Ground
   P10
         Ground
         Ground
   P11
   P12
         Ground
   P13
         Ground
   P14
         Ground
         Ground
   P15
   P16
         Ground
         Computer Ground
   P17
          Analog to Digital (A/D) Converter
  J14
          Input Port Forward Motor Pressure (IPFMPR)
    Pi
          Input Starboard Forward Motor Pressure (ISFMPR)
    P2
          Input Port Aft Motor Pressure (IPAMPR)
    Р3
          Input Starboard Aft Motor Pressure (ISAMPR)
    P4
          Input Port Hydraulic Oil Temperature (IPHOTM)
    P5
```

# Table 2.0-1. Input/Output Signal Listing by Pin Number for the SC-1 Computer (Continued)

```
Input Starboard Hydraulic Oil Temperature (ISHOTM)
 Põ
       Input Engine Coolant Temperature (IENCTM)
 P7
 P8
 P9
       Ground
       Ground
 P10
 P11
       Ground
 P12
       Ground
 P13
       Ground
 P14
       Ground
 P15
       Ground
 P16
       Ground
 P17
       Computer Ground
 F18
       Computer Ground
        Analog to Digital (Aux Analog In) (Required Separate Connector on SC-1
J15
        Computer Enclosure)
 P1
 P2
 P3
  P4
  P5
  P6
  P7
  Р8
  Р9
        Ground
  P10
        Ground
  P11
        Ground
  P12
        Ground
  P13
        Ground
  P14
        Ground
```

# Table 2.0-1. Input/Output Signal Listing by Pin Number for the SC-1 Computer (Continued)

```
P15
       Ground
 P16
       Ground
 P17
       Computer Ground
 P18
       Computer Ground
J16
        Parallel I/O (Switch Closures to Ground)
 P1
        Clamp (+24)
 P18
       Desired Suspension Up Valve Status
 P17
        Desired Suspension Down Valve Status
 P16
        Desired Secondary Cooling Fan 4 gpm Valve Status
 P15
        Desired Secondary Cooling Fan 8 gpm Valve Status
 P14
        Desired Electric Bilge Pump Activation
 P13
 P12
        Desired Starboard Bucket Counterclockwise Valve Status
 P11
        Desired Starboard Bucket Clockwise Valve Status
  P10
        Clamp (+24)
  P9
  P8
  P7
  P6
  P5
  P4
  Р3
  P2
  P20
        Clamp (+24)
  P28
        Low Brake and Clutch Lube Pressure Switch Status
  P27
        Low Brake Release Pressure Switch Status
  P26
        Low Brake Supply Pressure Switch Status
  P25
        Low Port Charge Pump Pressure Switch Status
  P24
        Low Starboard Charge Pump Pressure Switch Status
  P23
        Hydraulic Filter By-Pass Switch Status
  P22
        Port 1 Suspension Component Switch Status
```

# Table 2.0-1. Input/Output Signal Listing by Pin Number for the SC-1 Computer (Continued)

```
P21
       Port 2 Suspension Component Switch Status
 P19
       Port 3 Suspension Component Switch Status
 P29
       Cathode Signal Return
 P 36
       Port 4 Suspension Component Switch Status
 P35
       Port 5 Suspension Component Switch Status
 P34
       Low Suspension System Supply Pressure
 P33
 P 32
 P31
 P30
 P37
        Signal Return for Computer
J17
        Parallel I/O (Switch Closure to Ground)
 Р1
        Clamp (+24)
 P18
 P17
        Desired Primary Cooling Fan on Valve Status
 P16
        Desired Primary Cooling Fan Stop Valve Status
 P15
        Desired Secondary Grill Open Valve Status
 P14
 P13
        Desired Seawater Pump Activation
 P12
        Desired Waterjet By-Pass Valve Status
  P11
        Desired Waterjet No By-Pas Valve Status
        Clamp (+24)
 P10
  P9
  P8
  P7
  Р6
  25
  P4
  Р3
  P2
```

Table 2.0-1. Input/Output Signal Listing by Pin Number for the SC-1 Computer (Continued)

```
P20
       (Clamp (+24)
 P28
       Starboard 1 Suspension Component Switch Status
 P27
       Starboard 2 Suspension Component Switch Status
 P26
       Starboard 3 Suspension Component Switch Status
 P25
       Starboard 4 Suspension Component Switch Status
 P24
       Starboard 5 Suspension Component Switch Status
 P19
 P29
       Cathode Signal Return
 P36
       Low Vehicle System Voltage Switch Status
       Low Control System Voltage Switch Status
 P35
 P34
       High Vehicle System Voltage Switch Status
       High Control System Voltage Switch Status
 P33
 P32
       Primary Grill Closed Switch Status
 P30
 P37
        Signal Return for Computer
J18
        Parallel I/O (Positive Voltage to Card)
 P1
        Clamp (+24)
 P18
        Desired Motor No By-Pass Valve Status
        Desired Port Bucket Counterclockwise Valve Status
 P17
 P16
        Desired Port Bucket Clockwise Valve Status
        Desired Primary Grill Closure Valve Status
 P15
 P14
        Desired Primary Grill Open Valve Status
 P13
        Desired Hydraulic Bilge Pump Valve Activation
        Desired Hydraulic By-Pass Valve Status
  P12
  P11
        Desired Motor By-Pass Valve Status
  PIÛ
        Clamp (+24)
  P9
  P8
  P7
  P6
  P5
```

Table 2.0-1. Input/Output Signal Listing by Pin Number for the SC-1 Computer (Continued)

```
P4
 Р3
 P2
 P20
       Clamp (+24)
 P28
       Aft Electric Bilge Pump Activation Status
 P27
       Seawater Pump Activation Status
 P26
       Hydraulic Bilge Pump Valve Activation Status
 P25
       Forward Electric Bilge Pump Activation Status
 P24
       Desired High Gear Selector Switch Status
 P23
       Desired Low Gear Selector Switch Status
 P22
       Desired Seaborne Mode Selector Switch Status
 P21
       Desired Transition Mode Selector Switch Status
       Desired Landborne Mode Selector Switch Status
 P19
 P29
       Cathode Signal Return
 P36
       Desired Drive Selector Switch Status
 P35
        Desired Neutral Selector Switch Status
 P34
        Desired Reverse Selector Switch Status
 P33
        Desired Park Selector Switch Status
 P32
       Fire Sensed Switch Status
 P 31
       Low Scavenge Pump Pressure Switch Status
 P30
 P37
        Signal Return for Computer
J21
        Not Used
J22
 P
        A +24
        B Pwr Rtn
        C Ground
```

Table 2.0-1. Input/Output Signal Listing by Pin Number for the SC-1 Computer (Continued)

```
J23
       Not Used
J24
       Not Used
J25
 P1
       +24
 P2
       High Level Output (Forward Electric Bilge Pump Activation)
 Р3
       Low Level Input
 P4
        +24
 P5
       High Level Output (Aft Electric Bilge Pump Activation)
 P6
       Low Level Input
       +24
 P7
 P8
       High Level Output (Suspension Down Valve Activation)
 Р9
       Low Level Input
 P10
        +24
 P11
        High Level Output (Suspension Up Valve Activation)
 P12
        Low Level Input
 P13
        +24
 P14
        High Level Output
 P15
       Low Level Input
 P16
       +24
 P17
       High Level Output
 P18
        Low Level Input
 P19
        +24
 · P20
        High Level Output
 P21
        Low Level Input
  P22
        +24
 P23
        High Level Output
  P24
       Low Level Input
```

Table 2.0-1. Input/Output Signal Listing by Pin Number for the SC-1 Computer (Continued)

```
J26
 P1
       +24
 P2
       PWM Output (Desired Low Clutch Valve Voltage (DCLVV))
 Р3
       PWM Input from J7-1
 P4
       +24
 P5
       PWM Output (Desired High Clutch Valve Voltage (DCLVV))
 P6
       PWM Input from J7-2
 P7
       +24
 P8
       PWM Output (Output Desired Engine Speed (DES))
 P9
       PWM Input from J7-3
 P10
        +24
 P11
       PWM Output
 P12
       PWM Input from J7-4
 P13
       +24
  P14
        PWM Output (Desired Port Forward Transmission Valve Voltage (DPFTVV))
 P15
        PWM Input from J8-1
 P16
        +24
 P17
        PWM Output (Desired Starboard Forward Transmission Valve Voltage
        (DSFTVV)
  P18
       PWM Input from J8-2
  P19
        +24
  P20
        PWM Output (Desired Port Aft Transmission Valve Voltage (DPATVV))
  P21
        PWM Input from J8-3
  P22
        +24
  P23
        PWM Output (Desired Starboard Aft Transmission Valve Voltage (DSATVV))
  P24
        PWM Input from J8-4
```

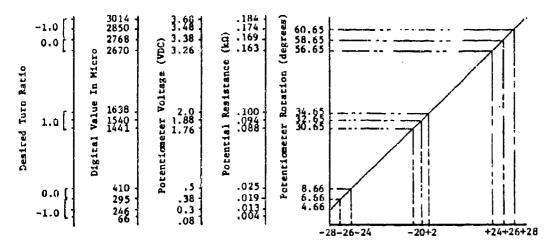
Table 2.0-1. Input/Output Signal Listing by Pin Number for the SC-1 Computer (Continued)

```
J27
  P1
  P2
  Р3
  P4
  P5
  P6
  P7
  P8
  P9
        +57
  P10
  P11
        +57
        Reset Switch Lead (Spring Loaded Normally Open)
  P12
  P13
        Reset Switch Lead
  P14
  P15
  P16
  P17
  P13
  P19
  P20
  P21
  P22
  P23
  P24
  P25
J28
        RS 232 Interface
  P1
  P2
        Xmit
  Р3
        Rev
  P4
```

Table 2.0-1. Input/Output Signal Listing by Pin Number for the SC-1 Computer (Continued)

```
P5
P6
P7
      Sig Ret
P8
Р9
P10
P11
P12
 P13
 P14
 P15
 P16
 P17
 P18
 P19
 P20
 P21
 P22
 P 23
       +157
       Pwr Rtn
 P24
 P 25
        -15V
J29
  P
        A +24V
        B Pwr Rtn
          Ground
```

#### DESIRED TURN RATIO (DTR)



Steering Mechanism Displacement (Degrees)

Pot Rotation: degrees - Steering Mechanism Rotation: degrees +32.48

Pot Resistance:  $k\Omega = \frac{\text{Pot Rotation: degrees}}{348}$  (1kΩ)

Pot Voltage: VDC = (20mA) (Pot Resistance: kΩ)

Micro Integer Value = Pot Voltage: VDC 4095

For Left Turns

Micro
Desired Turn Ratio = (.00097) Integer -.04

For Right Turns

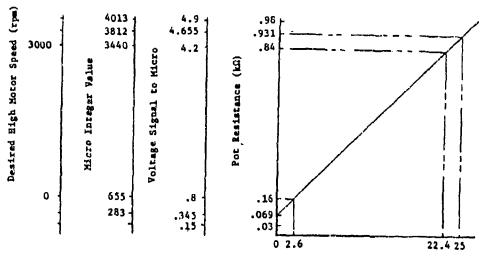
Micro
Desired Turn Ratio = (- 00097) Integer ÷ 2,587
Value

1 kn Rs Vs

 $1 - \frac{20 \text{ V}}{1 \text{ kΩ}} = 20 \text{ mA}$ 

Figure 2.1-1 Steering Mechanism Displacement Signal Relationships

#### Desired High Hotor Speed (DHHS)



Accelerator Pedal Displacement (degrees)

Pot Resistance ikΩ = (Accelerator Displacement: degrees)  $\left(\frac{300}{25}\right)\left(\frac{1k\Omega}{346}\right)$ + .069

Pot Resistance: k0 = (Accelerator Displacement: degrees)(.0345) + .069

Voltage Signal To Micro: VDC = (Pot Resistance: kn)(5mA)

Integer Value In Micro - Voltage Signal to Micro (4095)

$$3000 = 3440x + y$$

$$0 = 655x + y$$

$$3000 = 2785x$$

Desired High Hotor Speed: rpm = 1.077 (Hiero Integer Value) -705.6

1kO Re Ve DS.6

$$5VDC = (1k\Omega)(1)$$

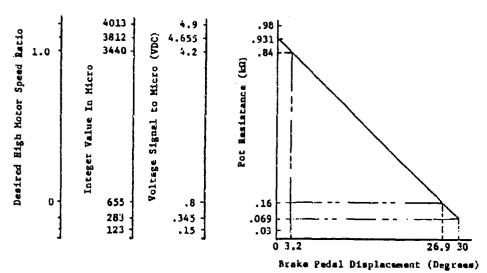
$$1 = 5mA$$

$$Ramin = \frac{1k\Omega - \frac{300}{348} \quad 1k\Omega}{2} - .069k$$

Rxmax =  $1k\Omega - .069 k\Omega = .931\Omega$ 

Figure 2.1-2 Accelerator Pedal Displacement Signal Relationships

# Desired High Motor Speed Ratio (DHMSR)



Pot Resistance:  $k\Omega$  = (Brake Pedal Displacement: degrees) $\left(\frac{300}{30}\right)\left(\frac{1k\Omega}{348}\right)$  .069

Pot Resistance: kf = (Brake Fedal Displacement: degrees)(.0287) + .069

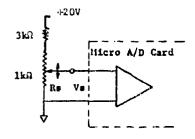
Voltage Signal to Micro: VDG = (Pot Resistance: kΩ)(5mA)

$$1.0 = 3440x + y$$

$$0 = 655x + y$$

$$1.0 = 2785x$$

$$x = .0003591$$
  
 $y = .2352$ 



5VDC - (1kΩ)(1) 1 = 5mA

Desired High Motor Speed Ratio = .0003591 (Micro Ynteger Value) - .2352

Figure 2.1-3 Brake Pedal Displacement Signal Relationships

clock counts (from an internal clock that pulses at a rate of  $5.1177 \times 10^5$  counts/sec) that occur between the passage of gear teeth. This provides a direct period of measurement of the gear tooth passage which can be directly converted to rotational speed. Figures 2.1-4, -5, -6 and -7 present the relationships between speed and computer-integer value for the engine, land drive motors, sprockets and waterjet motors, respectively.

#### 2.1.3 Waterjet Bucket Angle Signals

while in the transition or seaborne mode of operation, the waterjet buckets are rotated to generate turning forces. The steering mechanism displacment dictates the desired waterjet bucket rotation angle. Each waterjet bucket position is individually monitored to determine if it should be rotated clockwise, counterclockwise, or if its position is satisfactory. Feedback signals or the actual waterjet bucket position are used for this analysis. Figures 2.1-8 and -9 provide the port starboard waterjet bucket angle-to-computer software integer value relationships.

#### 2.1.4 Hydrostatic Transmission Pressure Signals

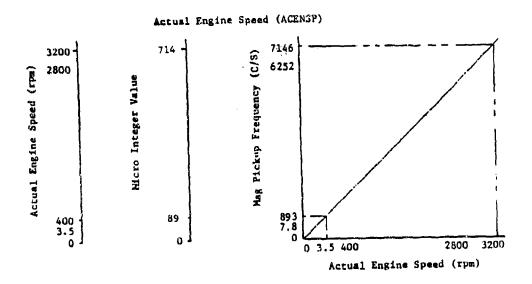
Hydrostatic transmission feedback signals are used to determine the torques on the hydrostatic motors and power requirements during transition and seaborne operation. Current loop pressure transmitters are used for this application which have a 10,000 psi working pressure rating. The pressure-to-computer integer relationship for these devices is presented in Figure 2.1-10.

#### 2.1.5 Working Fluid Temperature Signals

During vehicle operation, the port and starbord hydraulic oil temperatures and engine coolant temperature are continuously monitored to determine when the various cooling fans should be activated and when over-temperature conditions exist. Resistance thermometer devices (RTDs) are used in this application in combination with current loop transmitters which convert the low level RTD voltage signal to a current signal. Figure 2.1-11 relates the RTD output current signal-to-computer software integer value relationships.

#### 2.1.6 Digital Input Signals

The digital input signals listed in Table 2.0-1 consist of two major types which can be thought of as either switch signal closing to gre or a switch signal closing to a voltage source. The input signals associa



Mag Pickup Frequency: C/S = (Actual Engine Speed: rpm) (134 C/rev b0 sec/min)

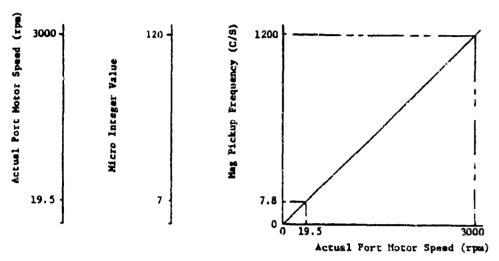
Mag Pickup Frequency: C/S = (Actual Engine Speed: rpm) (2.233 C/S//rpm)

Nicro Integer Value = (Mag Pickup Frequency: C/S)(10.0)

Actual Engine Speed: rpm = (Micro Integer Value)(600)

Figure 2.1-4 Engine Speed Signal Relationships





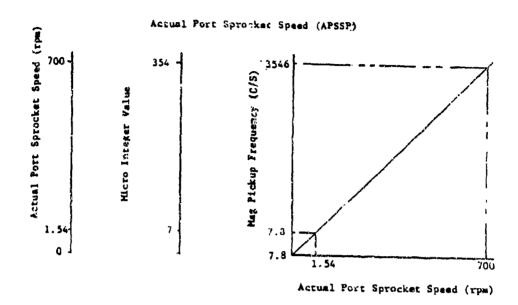
Mag Pickup Frequency:  $C/S = (Actual Port Motor Speed: rpm) \left(\frac{24 C/rev}{60 sec/min}\right)$ 

Mag Pickup Frequency: C/S = (Actual Port Motor Spend: rpm) (.4 C/S//rpm)

Micro Integer Value = (Mag Pickup Fraquency: C/S)(10.0)

Actual Port Motor Speed: rpm = (Micro Integer Value)(600)
24

Figure 2.1-5 Land Drive Motor Speed Signal Relationships



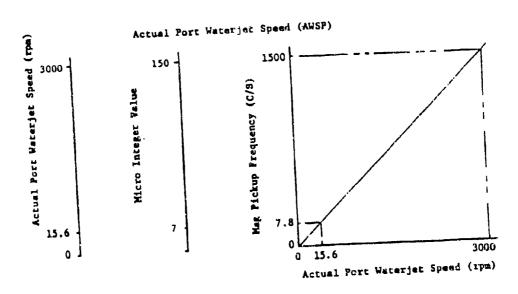
Mag Pickup Frequency: C/S = (Actual Port Sprocket Speed: rpm) (2.338)(130 C/rev) 60 sec/min

Mag Pickup Frequency: C/S = (Actual Port Sprocket Speed: rpm) (5.066 C/S//rpm)

Hiero Integer Value = (Mag Pickup Frequency: C/S)(10.0)

Actual Port Sprocket Speed: rpm = (Micro Integer Value)(600)

Figure 2.1-6 Sprocket Speed Signal Relationships



Mag Pickup Frequency: C/S = (Actual Port Waterjet Speed: rpm) (30 C/rev 60 sec/min)

Mag Pickup Frequency: C/S = (Actual Port Waterjet Speed: rpm) (.5 C/S//rpm)

Nicro Integer Value = (N ; Pickup Frequency: C/S)(10.0)

Actual Port Waterjet Speed: rpm = (Nicro Integer Value)(600)

Figure 2.1-7 Waterjet Speed Signal Relationships

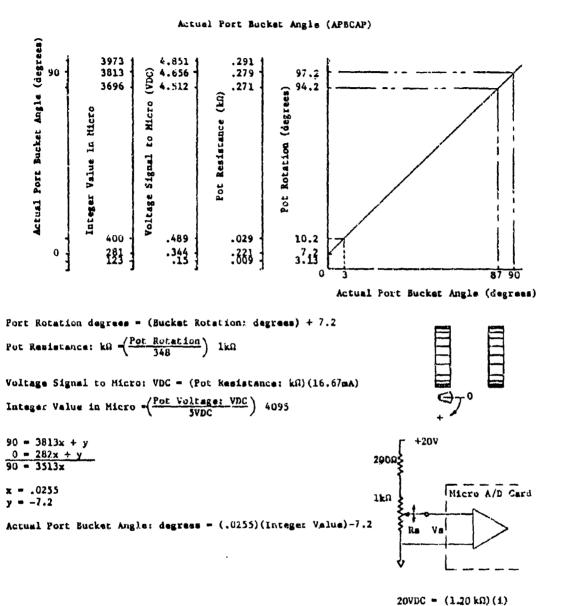


Figure 2.1-8 Port B :ket Angle Signal Relationships

1 = 16.67 mA

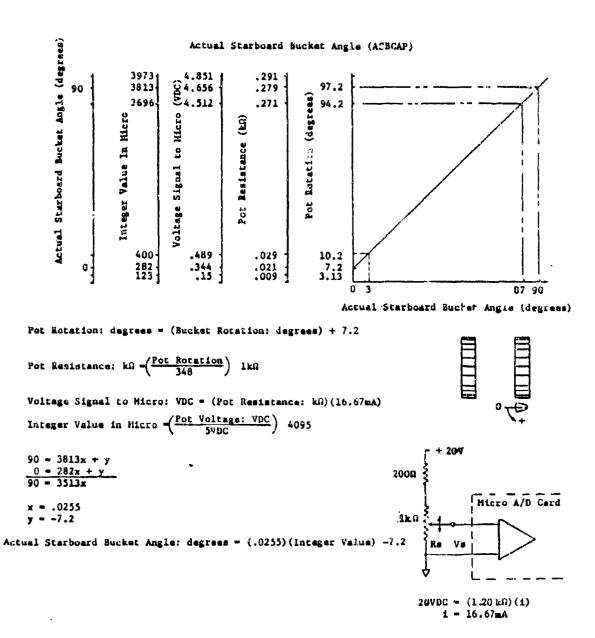
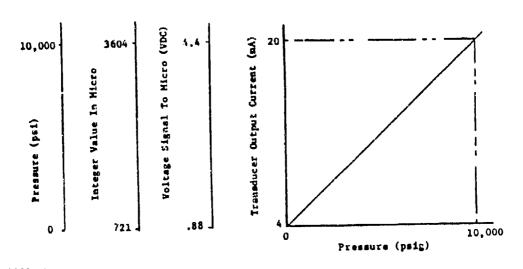


Figure 2.1-9 Starboard Bucket Angle Signal Relationships

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en i i regenti situato, unuti altriutti i ittimi e iltimateriani i

## Port Aft Motor Pressure



$$20 = 10000x + y 
4 = 0x + y 
16 = 10000x$$

x = .0016 y = 4

Transducer Output Current imA = (.0016)(Pressure ipsig) + 4

Voltage Signal To Micro: VDG = (Transducer Output Current: mA)(.22kΩ)

Micro Integer Value = Voltage Signal To Micro 4095

5VDC

x = 3.469 y= -2501

Pressure psig = (3.469)(Hicro Integer Value) -2501

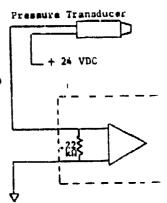


Figure 2.1-10 Hydrostatic Pressure Signal Relationships

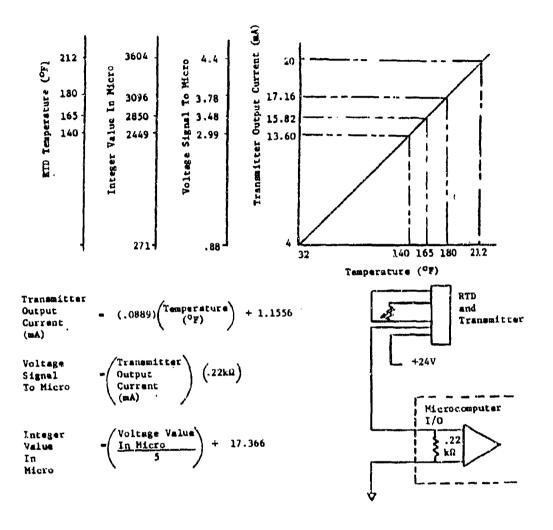


Figure 2.1-11 Temperature Signal Relationships

with the J16 and J17 parallel I/O cards are switch closures to ground, while the input signals associated with J18 are switch closures to a voltage supply. For switch closures to ground, the computer parallel I/O cards (Digital In/Digital Out) cards must provide the power necessary to provide a signal when the switch is closed to ground indicating an error condition. In this case the parallel I/O card acts as a current source. When the switch is closed to a voltage source indicating an error condition, however, the parallel I/O card must act as a current sink. Figures 2.1-12 and -13 provide electrical schematics of these two signal types and their connection to the parallel I/O card.

- 2.2 SC-1 Computer Output Signals
- 2.2.1 Digital Output Signals

The digital output signals generated by the computer are presented in Table 2.0-1 on I/O cards J16-J18. For all of these signals the parallel I/O card acts like a current sink. Since all of the digital output signals are driving high power level inductive devices, a relay circuit is provided to allow the low level computer signal to energize the motor or valve solenoid inductive devices. A typical schematic for these circuits is shown in Figure 2.2-1.

## 2.2.2 Pulse Width Modulated (PWM) Output Signals

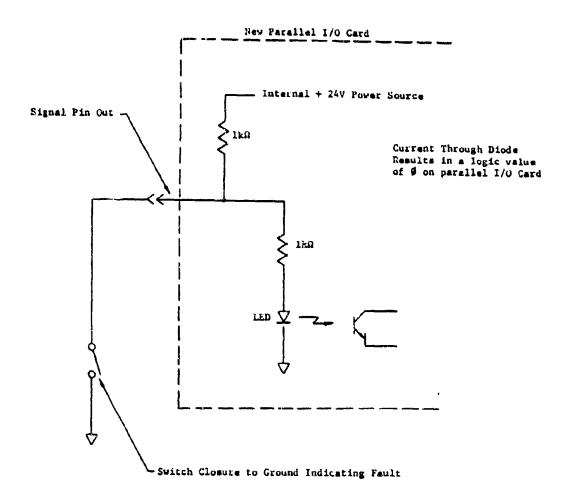
PWM signals are provided to drive the transmission control valves, clutch control valves, and engine governor controller. These s gnals are generated at a low voltage value, +5V, in the microcomputer I/O chassis and are upgraded to the +24V signal level and 1.0 amp power level through the use of bipolar junction transistor driver circuits also housed within the I/O chassis.

These signals are all operated with a fixed frequency of 300 hz and duty cycles variable between 0.0 and 100.0 percent. This yields average voltage levels variable between 0.0 and 24.0 volts.

#### 2.3 SC-1 Computer Description

An outline drawing of the computer illustrating the location of the various I/O functions (F/A, A/D, D/A, PWM, an Parallel I/O) is presented as Figure 2.3-1. This figure can be compared to the signal listing provided as Table 2.0-1 to obtain a visual indication of where the input and output signals will be received and transmitted by the computer.

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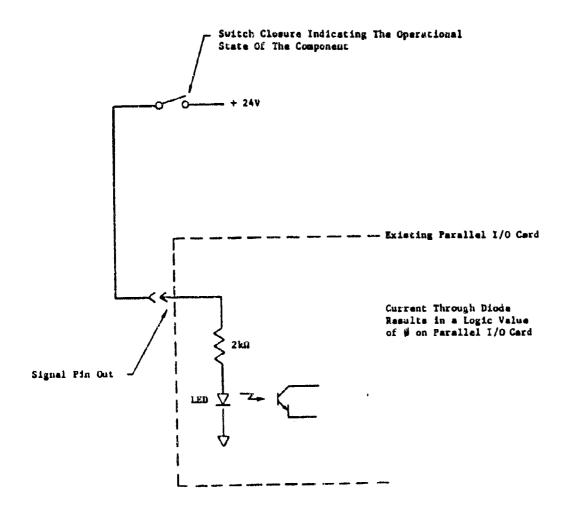


Partial Signal Schematic for Inputs To Two New Parallel I/O Card For ATR Project

Figure 2.1-12 Digital Input Signal Schematic as a Switch Closure to Ground

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and the controlling matter a common ment of the angle of the second controlling of the second co



Partial Signal Schematic for Inputs to Existing Parallel I/O Card from HTP Project To Be Lead In ATR Project

Figure 2.1-13 Digital Input Signal Schematic as a Switch Closure to a Voltage Source

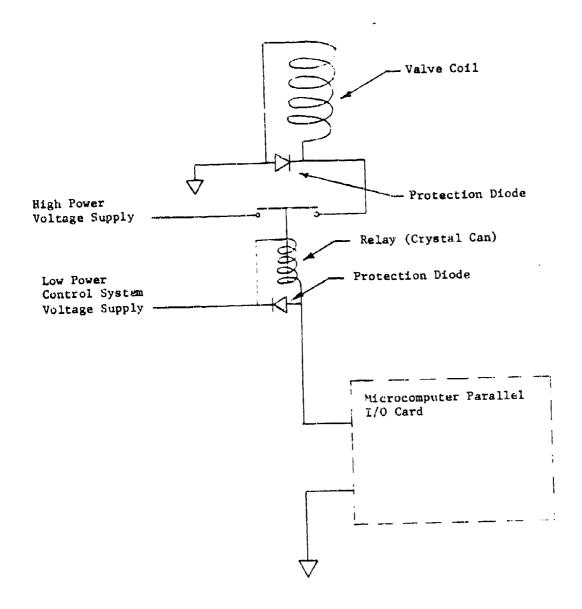


Figure 2.2.-1 Schematic For Typical Digital Output Signal

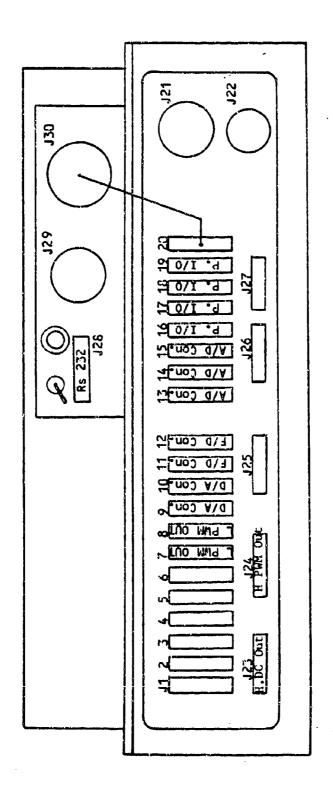


Figure 2.3-1 SC-1 Computer Connector Locations

The SC-1 uses the 5 MHz Intel 8086 central processing unit in unison with the Intel 8087 math processor and 8089 Input/Output processor, all very large-scale integration (VLSI) processors. All reside on the system's local bus. A block diagram of the computer is shown in Figure 2.3-2 and Table 2.3-1 summarizes the SC-1's general specifications.

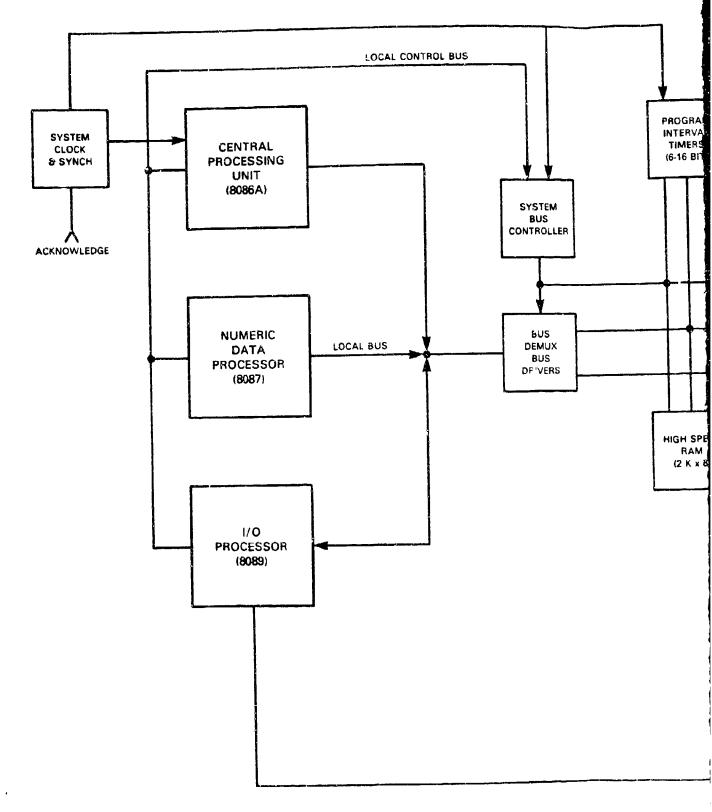
In its current configuration, the SC-1 uses a tri-processor configuration to provide increased throughput. Using the 8086's pipelined architecture, a great amount of parallel processing can be achieved. The 8087 is a purely numeric processor and can execute some numerical instructions 500 times faster than those instructions emulated from an 8086.

The Intel 8089 is a dedicated I/O processor. It communicates with an I/O expander unit which houses A/D, D/A and F/V converters, and a parallel I/O board. The 8089 reads vehicle inputs at the I/O expander and places them in main memory where the applications program can process them. It also reads a block of data from memory which represents control outputs and sends them to the I/O expander.

The SC/1 has three subsystems of memory. First, there is a 128K bubble memory unit to store the monitor and application programs. Second, there are also 2K bytes of static RAM for use as a system stack. Last, for main memory, there are 128K bytes of fault tolerant dynamic RAM. This DRAM provides single-bit failure detect/correct and multi-bit failure detect for the main memory.

To further mitigate the effects of a momentary software failure, a watchdog timer is provided in the circuit. The timer receives a signal every 100 msec from the software. If for some reason the software "look up", a hardware reset is initiated and the program reboots from PROM. Execution restarts with a fresh copy of the software without the operator's intervention. A checksum over the application program provides a secondary verification. The checksum is computed every 100 msec. This checksum is compared to the original value sorted in PROM. If there is a discrepancy, the program has been inadvertently changed. Therefore, a hardware rest and software reload is initiated.

The SC-1's performance has been validated through many different environmental tests to make it acceptable to military and commercial applications. It has operated successfully through vibration tests to warrant use on



Block diagram of SC-1 computer.

Figure 2.3-

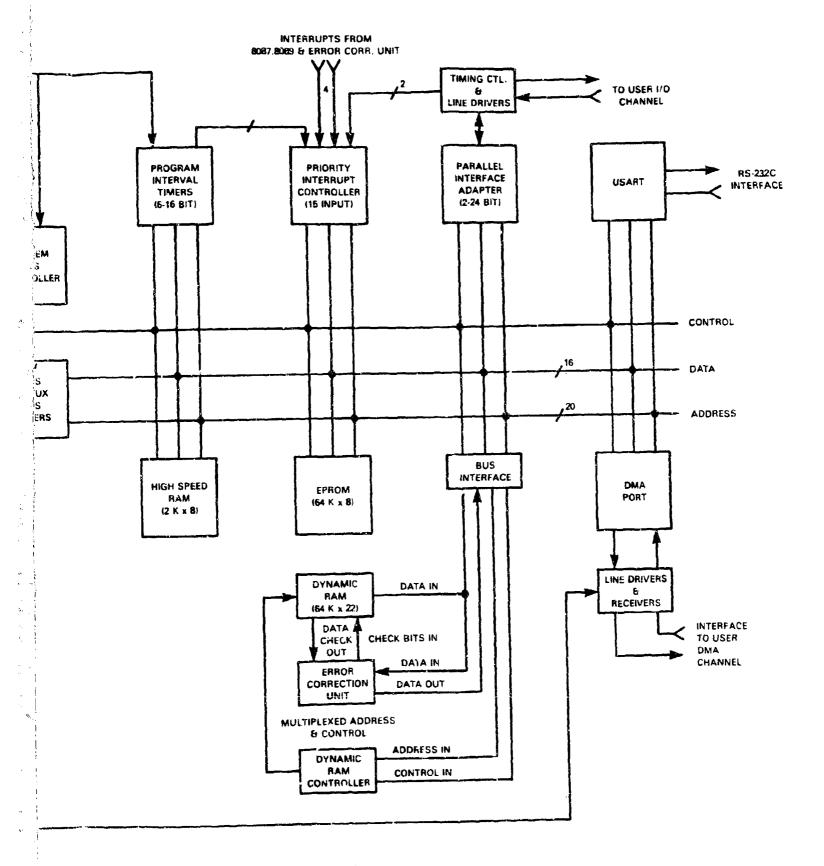


Figure 2.3-2 Block Diagram of the SC-1 Computer

## Table 2.3-1 General Specifications for SC-1 Computer

### Configuration

8086/8007/8089 triprocessor on local bus

### Word Size

Instructions: 8, 16, 24 or 32 bits
Data: 8, 16 bits (single word = 16 bits)

#### Cycle Time

Basic instruction cycle: 0.8 s (instruction not in queue)

### Memory Capacity

Onboard Bubble:

128K bytes (expandable to 256K)

Onboard DRAM:

128K bytes (error correcting single-bit detect/

correct; multi-bit detect)

Onboard SRAM:

2K bytes

## I/O Capacity

Parallel:

48 lines programmable (8255s), using two parallel inter-

face adapters (equipped with LS1 controller to emulate

IBM-360 I/O channel handshaking).

DMA: Serial: Two 16-bit DMA ports, at 1M-bytes max transfer rate

RS-232 port, controlled by USART for both standard asynchronous or synchronous (8251A) communications

# Interrupts

Two 8-input priority interrupt controllers (15 hardware vectored interrupt lines available). Software configured for input priorities and mode (8259As).

#### Timer

Two timers, each equipped with three 16-bit interval timers. (Timer outputs available as interrupt inputs.) Software configured for mode and rate (8253s).

## Power Consumption

20W

#### Weight

9.38 lb

any application. The SC-1 can operate in a pure vacuum and in the temperature range of  $-40^{\circ}$  to  $+80^{\circ}$ C. All power is dissipated through the base plate; no fan is required. The micro also has proven electromagnetic compatibility.

#### 2.4 CONTROL SYSTEM HARDWARE CONFIGURATION

The hardware of the overall control system is illustrated in Figure 2.4-1. The system consists of the SC-1 Computer, the Milltope Recorder, the Terra computer, junction boxes 1, 2, and 3, and the interconnecting wiring.

Southwest Research Institute Drawing No. A10048 shows the main power, ground, and shielding electrical schematic within Junction Box 1. Hydraulic, automotive, and control system power and ground are received through connectors J42-J44 of Junction Box 1. From these connections, the power and ground sources are distributed within Junction Box 1 via Deutsch connectors.

Appendix B of this report presents individual circuit schematics for all of the signals presented in Table 2.0-1. These schematics have been prepared as a design and diagnostics aid for the system checkout and field diagnostics. The power, ground, and shielding portions of these individual circuit diagrams are developed to the point where the connect with the distribution hardware presented in Figure 2.3-1. This must be noted when reviewing each individual circuit.

A completed set of electrical schematics and stick-line drawings are provided under separate cover. These drawings include the following:

- o Computer to computer enclosure interconnections
- o Computer enclosures to Junction Box 1, and Terra computer, and Miltope recorder interconnections
- o Junction Box 1 Schematic, Dwg. No. A10048
- Junctions Box 1 to engine compartment sensors and actuators,
   and to Junction Boxes 2 and 3 interconnections
- o Junction Box 2 Schematic
- o Junction Box 2 to aft vehicle drivetrain sensor and actuator interconnections
- o Junction Box 3
- o Junction Box 3 to mid-vehicle drivetrain sensor and actuator interconnections.

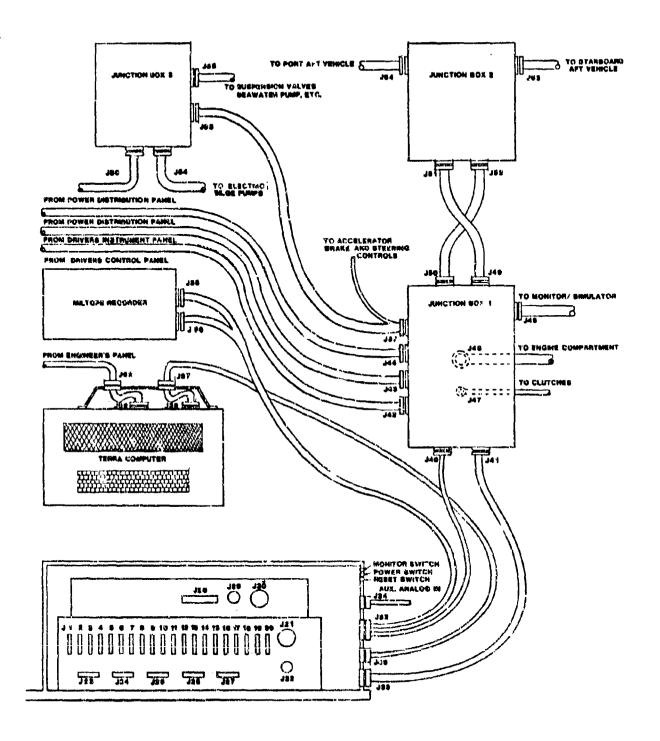


Figure 2.4-1 ATR Control System Hardware Configuration

3.0 ATR SOFTWARE DESCRIPTION

3.1 ATR SOFTWARE OVERVIEW AND FLOWCHART

The software for the ATR is divided into five parts as follows:

- o Initialization
- o MAIN Program
- o Input/Conversion Subroutines
- o Calculation Subroutines
- o Output Subroutines

The overall structure of the ATR software is designed to avoid recursive subroutine calls, GOTO's, and bit tests (where the result is not obvious) through the use of logical variables (.TRUE. .FALSE.). In addition, logical variables are used in the MAIN program structure to reference when subroutines such as SHIFT and CHOMP have been called.

Figure 3.1-1 provides the main flowchart for the ATR program. Each of the program segments are idnividually described in the following sections.

3.1.1 Initialization

The function of the initialization section is to set all error flags to .FALSE., configure the vehicle to the transition mode and to suppress the display of error messages until the vehicle is operating.

Called from: Nowhere (part of ATR MAIN program)

Called when: Vehicle is first started or when it is determined that the vehicle's engine has stopped running.

#### Sequence of Events

When power is first turned on or the engine has stopped running: Set error flags to .FALSE.

Set all other variables to initial values.

When the engine has started:

Turn off hydraulic by-pass valve.

Output standard wait message.

Configure vehicle to transition mode.

Wait 30 seconds for the suspension to extend.

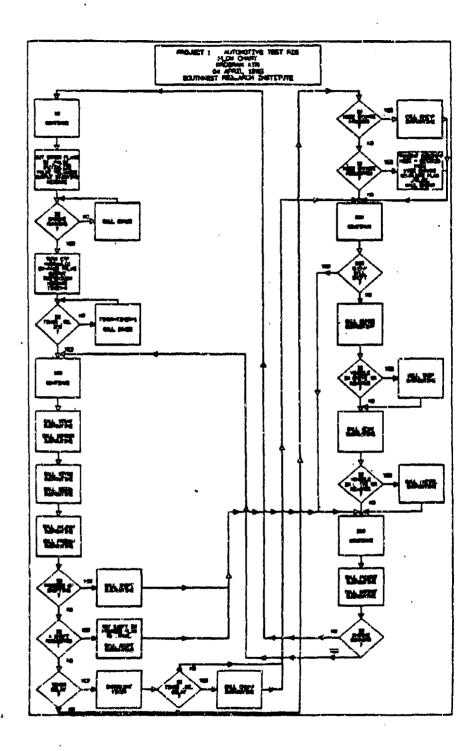


Figure 3.1-1 Main Flow Chart For ATR Program

#### 3.1.2 MAIN

The ATR MAIN program functions as a driver for the subroutines contained within the ATR main loop. The ATR main loop is defined as those subroutines contained within the input/conversion, calculation, and output sections of the program.

Called from: Nowhere (starts execution when the vehicle is started)

Called when: The SC-1 is turned on

#### Sequence of Events

Call SEGMT.

Call SENGER.

Call SEVOS.

Call SEASA.

Call ANLGIN.

Call FREQIN.

Are we presently shifting? Yes, Call SHIFT.

Is a shift Requested? Yes, Call SHIFT.

Has CHOMP set a timer delay? Yes, if delay finished call CHOMP.

Are we presently changing modes? Yes, Call CHOMP.

Is a mode change requested? Yes, Call CHOMP.

Did CHOMP Call SHIFT? Yes, continue at the output section.

Call DEMOS.

Is the vehicle in drive or reverse? Yes, Call TREP.

Call ECAN.

Is the vehicle in drive or reverse? Yes, call ANTSTL.

Call PWMOUT.

Call ERROUT.

Is the engine still running? Yes, loop back to Call SEGMT.

No, loop back to initialization.

#### 3.1.3 Input/Conversion Subroutines

These subroutines have the task of decoding and error checking the digital inputs in the SEGMT, SENGER, SEVOS, and SESEA subroutines, And converting to engineering units and error checking the analog inputs in the ANLGIN and FREQIN subroutines.

## 3.1.3.1 Subroutine SEGMT

The subroutine SEGMT (Set, Error check, Gear, Mode, Transmission) is used to set and error check the variables associated with the gear selector switches, the mode selector switches, and the transmission selector switches.

Called from: MAIN

Called when: Each time through the loop

#### Sequence of Events

Get from Common DIGIN(3)

Select from DIGIN(3) the bits to be checked for the Mode Switches and plac: the bits into TLTS.

Select from DIGIN(3) the bits to be checked for the Transmission Switches and place the bits into TPNRD

Select from DIGIN(3) the bits to be checked for the Gear Switches and place the bits into TDGS

Check to see if the Mode selector is in LAND, or TRNSTN, or SEA.

If Mode Selector is not in one of these positions then set the Mode Selector Switch Failure (MSSF) error flag to .TRUE.

Set a default value equal to Transition mode of operation.

Check to see of the transmission selector is in PARK or NTRAL or REVRSE or DRIVE.

If the Transmission Selector is not in one of these positions then set the Transmission Selector Switch Failure (TSSF) error flag to .TRUE.

Set a default value of DRIVE.

Check to see if Gear Selector is in either HIGH or LOW.

If Gear Selector is not in one of these positions then set the Gear Selector Switch Failure (GSSF) error flag to .TRUE.

#### 3.1.3.2 Subroutine SENGER

The subroutine SENGER (Set ENGine ERrors) is used is used to check for failures in the vehicle's oil, hydraulic, and coolant systems.

Called from: MAIN

Called when: Each time through loop

### Sequence of Events

Get from common (DIGIN(1).

Have SBITS select the bits associated with the following variables and place them in the variable TEST.

High Engine Oil Temperature Switch Status

Low Brake and Clutch Lube Pressure Switch Status

Low Brake Release Pressure Switch Status

Low Brake Supply Pressure Switch Status

Low Port Charge Pump Pressure Switch Status

Hydraulic Filter By-Pass Switch Status

Low Starboard Charge Pump Pressure Switch Status

Are any of the error bits .TRUE.?

If the answer is "no" then do not set the individual error flags.

If the answer is "yes" then set the individual error flags to their present values (.TRUE. or .FALSE.).

Set Low Brake and Clutch Lube Pressure Switch Failure (LBCLSF) error flag to present value.

Set Low Brake Release Pressure Switch Failure (LBRPSF) error flag to present value.

Set Low Brake Supply Pressure Switch Failure (LBSPSF) error flag to present value.

Set Hydraulic Filter By-PAss Switch Failure (HFBPSF) error flag to present value.

Set Low Starboard Charge Pump Pressure Switch Failure (LSCPSF) error flag to present value.

Ge from common DIGIN(2).

Low Engine Oil Pressure Switch Status

Low Port Hydraulic Oil Level Switch Status

Low Starboard Hydraulic Oil Level Switch Status

Are any of the error bits .TRUE.?

If the answer is "no" then do not set the individual error flags.

If the answer is "yes" then set the individual error flags to their present values (.TRUE. or .FALSE.).

Set Low Engine Oil Pressure Switch Failure (LEOPSF) error flag to present value.

Set Low Port Hydraulic Oil Level Switch Failure (LPHLSF) error flag to present value.

Set Low Starboard Hydraulic Oil Level Switch Failure (LSHLSF) error flag to present value.

Have SBITS select the bits associated with the following variables and place them in the variable TEST.

Low Scavenge Pump Pressure Status

Fire Sensed Switch Status

Set Low Scavenge Pump Pressure Failure (LSPPSF) error flag to present value.

Set Fire Sensed Switch Failure (FIRESF) error flag to present value.

If FIRESF .TRUE, close primary and secondary grills; turn off all fams.

#### 3.1.3.3 Subroutine SEVOS

The SEVOS (Set Errors for VOltage and Suspension) subroutine checks for the failure of prot and starboard suspension components, along with checking for vehicle and control systems over or under voltages.

Called from: MAIN

Called when: Each time through loop

#### Sequence of Events

Get from common DIGIN(1).

Have SBITS select the bits associated with the following variables and place them in the variable TRPORT.

Port 1 Suspension Component Switch Status

Port 2 Suspension Component Switch Status

Port 3 Suspension Component Switch Status

Port 4 Suspension Component Switch Status

Port 5 Suspension Component Switch Status

Get from common DIGIN(2).

Have SBITS select the bits associated with the following variables and place them in the variable TSTRBD.

Starboard 1 Suspension Component Switch Status

Starboard 2 Suspension Component Switch Status

Starboard 3 Suspension Component Switch Status

Starboard 4 Suspension Component Switch Status

Starboard 5 Suspension Component Switch Status

Low Vehicle System Voltage Switch Status

Low Control System Voltage Switch Status

High Vehicle System Voltage Switch Status

High Control System Voltage Switch Status

Are there any .TRUE. error bits in the variable TPORT?

If the answer is "no" then do not set the individual error flags to their present values (.TRUE. or .FALSE.).

Set Port 1 Suspension Component Switch Failure (P1SCSF) error flag to present value.

Set Port 2 Suspension Component Switch Failure (P2SCSF) error flag to present value.

Set Port 3 Suspension Component Switch Failure (P3SCSF) error flag to present value.

Set Port 4 Suspension Component Switch Failure (P4SCSF) error flag to present value.

Set Port 5 Suspension Component Switch Failure (P5SCSF) error flag to present value.

Arc there any .TRUE, error bits in the variable TPORT?

If the answer is "no" then do not set the individual error flags.

If the answer is "yes" then set the individual error flags to their present values (.TRUE. or .FALSE.).

Set Starboard 1 Suspension Component Switch Failure (S1SCSF) error flag to present value.

Set Starboard 2 Suspension Component Switch Failure (S2SCSF) error flag to present value.

Set Starboard 3 Suspension Component Switch Failure (S3SCSF) error flag to present value.

Set Starboard 4 Suspension Component Switch Failure (S4SCSF) error flag to present value.

Set Starboard 5 Suspension Component Switch Failure (S5SCSF) error flag to present value.

Set Low Vehicle System Voltage Switch Failure (LVSVSF) error flag to present value.

Set Low Control System Voltage Switch Failure (HVSVSF) error flag to present value.

Set Nigh Control System Voltage Switch Failure (HCSVSF) error flag to present value.

### 3.1.3.4 Subroutine SESEA

The subroutine SESEA (SEt SEA/land transition) determines the status of the bilge pumps, and ramp and grill closures. It also determines when the bilge pumps, ramp, and grill are in the proper position to change the mode of operation.

Called from: MAIN

Called when: Each time through the loop

Sequence of Events

Get DIGIN(3) from common.

Have SBITS select the bits associated with the following variables and place them in the variable CKPUMP.

AFT Electric Bilge Pump Activation Status Forward Electric Bilge Pump Activation Status Hydraulic Bilge Pump Valve Activation Status

Get DIGIN(2) from common.

Have SBITS select the bits associated with the following variables and place them in the variable CKRAMP.

Primary Grill Closed Switch Status Ramp closed and Latched Switch Status

Set Aft Electric Bilge Pump Activation Status Flag (AEBPSF) to present value.

Set Seawater Pump Activation Status Flag (SEWPSF) to present value.

Set Hydraulic Bilge Pump Valve Activation Status Flag (HBPVSF) to present value.

Set Forward Electric Bilge Pump Activation Status Flag (FEBPSF) to present value.

Set Primary Grill Closed Switch Status Flag (PGCSSF) to present value.

Set Ramp Closed and latched Switch Status Flag (RCLSSF) to present value.

Are all pumps on and everything closed and locked?

If the answer is "yes" set the Land to Sea Transition Flag to .TRUE.

"No" continue.

Are the pumps off and the grill open?

If the answer is "yes" set t e Sea Land Transition Flag to .TRUE. "No" continue.

#### 3.1.3.5 Subroutine ANLGIN

The subroutine ANLGIN (ANaLoG INputs) converts the analog signals from the steering, brakes, accelerator, waterjet bucket positions, and pressure transducers. In addition, ANLGIN sets the error flags associated with these signals and generates default values as needed.

Called from: MAIN

Called when: Each time through the loop

#### Sequence of Events

Convert port and starboard bucket angles on error default: Odegrees

Convert desired high motor speed on error high default: present value

Convert desired high motor speed on error low default: Ø rpm

Convert high motor speed ratio (brake pedal) on error default:

Ø(brakes fully applied)

Convert desired turn ratio on error default: 1 (straight ahead)
Convert motor pressures on error high default: present value
Convert motor pressures on error low default: 3000 psi (1b/in²)
Convert engine coolant temperature on error default: 240°F
Convert hydraulic oil temperatures on error default: 240°F

### 3.1.3.6 Subroutine FREOIN

The subroutine FREQIN (FREQuency INputs) converts the frequency signals from the engine, motor, sprocket, and waterjet magnetic pickups. In addition, FREQIN sets error flags associated with these signals and generates default values as needed.

Called from: MAIN

Called when: Each time through the loop

#### Sequence of Events

Convert engine, motor sprocket, and water et speeds.

Check for engine mag pickup failure.

Check for motor and sprocket and waterjet failures only when in drie or reverse.

Check for motor and sprocket failurs only when in land or transition modes.

Check for waterjet failures only when in transition or seaborne modes.

On error default value for motor failures is derived from sprocket speeds.

On error defalt value for sprocket failures is derived from motor speeds.

On error default value for waterjets in transition mode is from motor speeds.

On error default value for waterjets in seaborne mode is from either port or starboard waterjet.

#### 3.1.4 Calculation Subroutines

These subroutines control the vehicle, such as handling mode changes (CHOMP), or for calculating values, such as total required engine power (TREP). The subroutines use the converted values from the input/conversion subroutines as well as any error or status flags deemed necessary.

### 3.1.4.1 Subroutine SHIFT

The subroutine SHIFT determines when a change in final drie gear ratios is allowable and when allowable, performs the shifting sequence.

Called from: MAIN or CHOMP

Called when: Present Final Drive Gear Clutch does not equal Desired Final Drive Gear Clutch

#### 3.1.4.2 Subroutine CHOMP

The subroutine CHOMP (Change of Operation Mode) determines which of four mode changes is desired, (Land to Transition, Transition to Sea, etc.) and then calls the appropriate subroutine to accomplish that specific mode change.

Called from: MAIN

Called when: o Timer delay is complete

o In the mode change process

o A mode change is requested

#### Sequence of Events

If PResent Mode Of Operation (PRMOOP) is equal to LAND and Present Desired Mode of Operation (PDMOOP) is equal to TRNSTN or SEA then Present Desired Mode of Operation must (PDMOOP) equal TRNSTN.

Is the desired mode change from LAND to TRNSTN?

If the answer is "yes," call subroutine LNDTRN (Land to Transition).

If the answer is "no," is the desired mode change from TRNSTN to LAND?

If the answer is "yes," call subroutine YRNLND (Transition to Land).

If the answer is "no," is the desired mode change from SEA to TRNSTN?

If the answer is "yes," call subroutine SEATRN (Sea to Transition).

If the answer is "no," is the desired mode change from TRNSTN to SEA?

If the answer is "yes" then call subroutine TRNSEA (Transition to Sea).

If the answer is "no," then Return.

It should be noted that if the subroutine LNDTRN is called, its point of RETURN in the CHOMP subroutine is at the check for the Transition to Land mode change. There is no risk of calling more than one subroutine each pass through CHOMP because the mode determination, error checking, and default setting has already been accomplished by the subroutine SEGMT. Also, there is no risk of calling a different mode change subroutine the second, third, etc., time through CHOMP because the Present Desired Mode of Operation (PDMOOP) is not updated until the mode change is complete. (Remember that CHOMP bases the decision on which mode change subroutine to call on the Present Desired Mode of Operation (PDMOOP).

### 3.1.4.3 Subroutine LNDTRN

The subroutine (LaND to TRansition) manages to Land to Transition mode change.

Called from: CHOMP

Called when: Land to transition mode change requested

#### Sequence of Events

Is the vehicle is high gear? Yes, call SHIFT.

Is the vehicle going too fast to start the change to TRNSTN mode?

If the answer is "yes," set the error flag to output "MOOCNC (Mode Of Operation Change No Complete) - excessive vehicle speed" message, RETURN.

If the answer is "no," check to see if the ramp is closed and latched.

If the answer is "no" then Return.

If the answer is "ye;" then:

Shut off: Primary cooling fans

Secondary cooling fans Waterjet by-pass valve

Turn on: Sea water pump

Aft electric bilge pump Forward electric bilge pump

Hydraulic bilge pump

Waterjet no by-pass valve

Has the 5-second time delay necesary for the fans to slow down before grill closure, been executed?

If the answer is "no," set the Time Delay (TDELAY) value for the main loop to use, and RETURN.

If the answer it "yes," close both the primary and secondary grills.

Check the Land to Sea Transition (LSTRNS) flag (set by the subroutine SESEA) to see if the grills are closed and the seawater and bilge pumps are on, and the rump is closed and latched.

If LSTRNS is .FALSE., the vehicle is not properly configured for the mode change. RETURN.

If LNTRNS is .TRUE. then proceed to finalize the mode change.

Turn on the Mode of Operation Change Complete (MOOPCC) light (.TRUE.).

Set Present Mode of Opration (PMOOP) equal to Present Desired Mode of Operation (PDMOOP).

Zero the Time DELAY (TDELAY).

RETURN.

## 3.1.4.4 Subroutine TRNLND

The subroutine TRNLND (TRansition to LaND) manages the Transition to Land mode change.

Called from: CHOMP

Called when: Transition to land mode change requested

## Sequence of Events

Has the 3-second time delay necessary for the grills to open before starting the fans, been executed?

If the answer is "no," set the Time DELAY (TDELAY) value for the main loop to use, open the grills, and RETURN.

If the answer is "yes:"

Turn on: Primary cooling fan

Waterjet by-pass valve

Turn off: Seawater pump

Electric bilge pumps Hydraulic bilge pump

Waterjet no by-pass valve

Check the Sea to Land Transition Flag (SLTRNS) (set by the subroutine SESEA) to see if the grills are open and the seawater and bilge pumps are off.

If SLTRNS is .FALSE., the vehicle is not properly configured for the mode change. RETURN.

If SLTRNS is .TRUE. then proceed to finalize the mode change.

Turn on the Mode of Operation Change Complete (MOOPCC) light. (.TRUE.)

Set Present Mode of Operation (PRMOOP) equal to Present Desired Mode of Operation (PDMOOP).

Zero the Time DELAY (TDELAY).

RETURN.

### 3.1.4.5 Subroutine TRNSEA

The subroutine TRNSEA (TRansition to SEA) manages the Transition to Sea mode change.

Called from: CHOMP

Called when: Transition to sea mode requested

#### Sequence of Events

Disengage high clutch.

Disengage low clutch.

Turn on: Motor by-pass valve.

Turn off: Motor no by-pass valve.

Has the 5-second delay necessary for the tracks to stop moving, been executed?

If the answer is "no," set the Time DELAY value for the main loop to use, and RETURN.

If the answer is "yes," raise the suspension and finalize the mode change.

Turn on Mode Of Operation Change Complete light (MOOPCC)(.TRUE.). Set PResent Mode Of Operation (PRMOOP) equal to Present Desird Mode Of Operation (PDMOOP).

Zero the Time DELAY (TDELAY).

RETURN

#### 3.1.4.6 Subroutine SEATRN

The subroutine SEATRN (SEA to TRansition) manages the Sea to Transition mode change.

C led from: CHOMP

Called when: Sea to transition mode change requested

### Sequence of Events

lower the suspension.

Has the 30-second delay necessary when lowering the suspension, been executed?

If the answer is "no," set the Time DELAY (TDELAY) value for the MAIN loop to use, and RETURN.

If the answer is "yes:"

Engage low clutch

Disengage high clutch.

Turn on: Motor no by-pass valve

Turn off: Motor by-pass valve

Turn on Mode of Operation Change Complete light (MOOPCC) (.TRUE.).

Set PResent Mode Of OPeration (PRMOOP) equal to Present Desired Mode Of Operation (PDMOOP).

Zero the Time DELAY (TDELAY).

RETURN

#### 3.1.4.7 Subroutine DEMOS

The subroutine DEMOS (DEsired MOtor Speed) calculates desired port and starboard motor speeds from the accelerator pedal, brake pedal, and joystick signals.

Called from: MAIN

Called when: Each time through the loop

#### Sequence of Events

In landborne mode calculate port and starboard desired motor speeds based on turn direction.

In transition mode calculate port and starboard waterjet speeds based on turn direction.

In seaborne mode desired waterjet speed is the same as desired high waterjet speed (steering accomplished by buckets).

#### 3.1.4.8 Subroutine TREP

The subroutine TREP (Total Required Engine Power) calculates the amount of power required by the transmissions. This is accomplished by having TREP determine if the vehicle is in the landborne mode or one of the other two modes calling either LDTREP or TSTREP.

Called from: MAIN

Called when: Vehicle is in drive or reverse

#### Sequence of Events

Is the vehicle in the landborne mode? Yes, Call LOTREP.

Is the vehicl ont in the landborne mode? Yes, Call TSTREP.

### 3.1.4.9 Subroutine LDTREP

The subroutine LDTREP (Land TREP) calculates total required engine power when the vehicle is in landborne mode.

Called from: TREP

Called when: Vehicle is in landborne mode

#### Sequence of Events

Determine if the port pump or if the port motor is at maximum displacement.

Calculate port torque.

Calculate port horsepower.

Repeat the sequence for the starboard pump and motor.

#### 3.1.4.10 Subroutine ISTREP

The subroutine TSTREP (Transition Sea TREP) calculates total required engine power when the vehicle is in either transition or seaborne modes.

Called from: TREP

Called when: Vehicle is in transition or scaborne modes.

#### Sequence of Events

Calculate port flow rate.

Calculate port waterjet power.

Calculate required power for the port transmission.

Repeat the sequence for the starboard transmission.

### 3.1.4.11 Subroutine ECAN

The subroutine ECAN (Engine Control and ANalysis) determines governor settings and controls the cooling system fans.

Called from: MAIN

Called when: Each time through the loop

#### 3.1.4.12 Subroutine ANTSTL

The subroutine ANTSTL (ANTi STall) insures that the hydrostatic drivetrain does not try to extract more engine power than the engine can produce at that moment.

Called from: MAIN

Called when: Vehicle is in drive or reverse

#### Sequence of Events

Calculate port and starboard pump power.

If in landborne mode: Calculate maximum motor speed;

Compare maximum with desired;

Turn direction and turn ratio then determines allowable port and starboard

motor speeds

If in transition mode: Calculate maximum waterjet speed:

Compare maximum with desired;

Turn direction and turn ratio than determines allowable port and starboard

waterjet speeds

If in seaborne mode:

Calculate maximum waterjet speed;

Compare maximum with desired;

Allowable port and starboard waterjet are

the same (bucket steering)

#### 3.1.5 Output Subroutines

These subroutines apply the control signals to the individual control elements as well as communicate the error messages to the Terra computer. The output signals consist of Pulse Width modulated signals and discreet en/off signals. The communication of the error messages is handled via transmission of four 16-bit words to the Terra via RS 232 communication. The error words are updated and stored in common.

#### 3.1.5.1 Subroutine ERROUT

The subroutine ERROUT (ERROR OUTput) combines the individual error flags into four sixteen-bit digital words. In addition, ERROUT determines if that particular error is proper for the present mode of operation.

Called from: MAIN

Called when: Each time through the loop

#### Sequence of Events

Is the error flag .TRUE.? Yes, put a one in the appropriate bit position.

Suppress errors generated in SESEA subroutine until deemed appropriate.

If between land and transition modes and the vehicle is going too fast, generate that error.

#### 3.1.5.2 Subroutine PWMOUT

This subroutine converts the desired transmission, engine, and clutch valve voltages into appropriate integer values which are then placed in Common to be transmitted to the PWM output cards.

Called from: MAIN

Called when: Each time through loop

#### Sequence of Events

Desired voltage values are converted to integer value duty cycle equivalent values and placed in appropriate Common block locations for each control device.

### 3.2 ATR Variable and Error Message Listing

The ATR variable listing and error message listing is provided in Table 3.2-1.

### 3.2.1 Variable Listing

The variable listing provides the formal variable name that is used in the software and a descriptive title associated with each variable name. This is presented as Table 3.2-1.

The state of the s

## 3.2.2 Error Message Listing

Table 3.2-2 presents the listing of the error messages which have been used for the ATR vehicle. This listing relates the word number and bit number associated with each error message. Also presented in this table is an error number assigned to each error and the actual error message that is presented on the Terra computer. Lastly, this table presents the name of the subroutine which detects the error and the program variable name that is used to convey the status of the error.

Table 3.2-1 ATR Program Variable Listing

AEBPSF	Error Flag		
AENSF	Error Flag		
AENSP	Actual Engine Speed		
ALPMSP	Allowable Port Motor Speed		
ALPWSP	Allowable Port Waterjet Speed		
ALSMSP	Allowable Starboard Motor Speed		
ALSWSP	Allowable Starboard Wateret Speed		
APBCAN	Actual Port Bucket Angle		
APBCSF	Error Flag		
EPMS#	Error Flag		
APMSP	Actual Port Motor Speed		
APPS	Actual Port Pump Speed		
APSSF	Error Flag		
APWSF	Error Flag		
ASBCAN	Actual Starboard Bucket Angle		
ASBCSF	Error Flag		
ASMSF	Error Flag		
ASMSP	Actual Starboard Motor Speed		
ASPS	Actual Starboard Pump Speed		
ASSSF	Error Flag		
ASWSF	Error Flag		
BIT	Bit pointer for TBIT function call		
BIT1	Bit pointer for TBIT function call		
B1710	Bit pointer for TBIT function call		
B XT11	Bit pointer for TBIT function call		
BIT12	Bit pointer for TBIT function call		
BIT13	Bit pointer for TBIT function call		
BIT14	Bit pointer for TBIT function call		
BIT15	Bit pointer for TBIT function call		
BIT16	Bit pointer for TBIT function call		
BIT17	Bit pointer for TBIT function call		
BIT18	Bit pointer for TBIT function call		

Table 3.2-1 ATR Program Variable Listing (Continued)

BIT19	Bit pointer	for TBIT	function call
BIT2	Bit pointer	for TBIT	function call
BIT20	Bit pointer	for TBIT	function call
BIT21	Bit pointer	for TBIT	function call
BIT22	Bit pointer	for TBIT	function call
BIT23	Bit pointer	for TBIT	function call
<b>BIT24</b>	Bit pointer	for TBIT	function call
BIT25	Bit pointer	for TB1T	function call
BIT26	Bit pointer	for TBIT	function call
BIT27	Bit pointer	for TBIT	function call
BIT28	Bit pointer	for TBIT	function call
B1T29	Bit pointer	for TBIT	function call
BIT3	Bit pointer	for TBIT	function call
BIT30	Bit pointer	for TBIT	function call
BIT31	Bit pointer	for TBIT	function call
BIT32	Bit pointer	for TBIT	function call
BIT33	Bit pointer	for TBIT	function call
BIT34	Bit pointer	for TBIT	function call
BIT35	Bit pointer	for TBIT	function call
BIT36	Bit pointer	for TBIT	function call
BIT37	Bit pointer	for TBIT	function call
BIT38	Bit pointer	for TBIT	function call
BIT39	Bit pointer	for TBIT	function call
BIT4	Bit pointer	for TBIT	function call
B1T40	Bit pointer	for TBIT	function call
BIT41	Bit pointer	for TBIT	function call
BIT42	Bit pointer	for TBIT	function call
BIT43	Bit pointer	for TBIT	function call
BIT44	Bit pointer	for TBIT	function call
BIT45	Bit pointer	for TBIT	function call
BIT46	Bit pointer	for TBIT	function call
BJT47	Bit pointer	for TBIT	function call

Table 3.2-1 ATR Program Variable Listing (Continued)

```
BIT48
         Bit pointer for TBIT function call
BIT49
         Bit pointer for TBIT function call
BIT5
         Bit pointer for TBIT function call
BIT6
         Bit pointer for TBIT function call
BIT7
         Bit pointer for TBIT function call
BIT8
         Bit pointer for TBIT function call
BIT9
         Bit pointer for TB1T function call
BLGOFF
         Bit pattern for Bilge Pumps Off
BLGPON
         Bit pattern for Bilge Pumps On
         Check Pump Land/Sea Transition
CKPLST
CKPSLT
         Check Pump Sea/Land Transition
CKPUMP
         Check Pump
CKRAMP
         Check Ramp
CKRLST
         Check Ramp Land/Sea Transition
CKRSL1
         Check Ramp Sea/Land Transition 1
CKRSL2
         Check Ramp Sea/Land Transition 2
DES
         J7 P3 Desired Engine Speed
DHCVV
         J7 P1 Desired High Clutch Valve Voltage
DHMHSF
         Error Flag
DHMLSF
         Error Flag
DHMRSF
         Error Flag
DHMSP
         Desired High Motor Speed
SHMSR
         Desired High Motor Speed Ratio
DHWSP
         Desired High Waterjet Speed
DHWSR
         Desired High Waterjet Speed Ratio
DIGIN
         Digital Input (3-element array)
DIGOUT
         J7 P2 Digital Output (7-element array)
DLCVV
         Desired Low Clutch Valve Voltage
DMOOP
         Desired MoJe of Operation
DPFRT
         Desired Port Flow Rate
DPMP
         Desired Port Motor Power
DPMSP
         Desired Port Motor Speed
```

Table 3.2-1 ATR Program Variable Listing (Continued)

DPPP Desired Port Pump Power DPPWJ Desired Power Port Waterjet Desired Power Starboard Waterjet DPSWJ DPWSP Desired Port Waterjet Speed DRIVE Drive DSFRT Desired Starboard Flow Rate DSMP Desired Starboard Motor Power DSMSP Desired Starboard Motor Speed USPP Desired Starboard Pump Power DSWSP Desired Starboard Waterjet Speed DTRNR Desired Turn Ratio DTRNSF Error Flag DTRST Desired Transmission Setting ENCTEM Engine Coolant Temperature ENCTSF Error Flag END ERROLY Error Delay FDR Final Drive Ratio FEBPSF Error Flag FIRESF Error Flag GCTD Grill Close Time Delay Grill Open Time Delay GOTD Bit pattern for Grill Closure GRCLSE Bit pattern for Grill Open GROPEN GSSF Error Flag **HBPVSF** Error Flag HCSVSF Error Flag HEOTSF Error Flag HIGH High Gear HVSVSF Error Flag IAENSP J12 P18 Input Actual Engine Speed J13 P4 Input Actual Port Bucket Angle IAPBCN

Table 3.2-1 ATR Program Variable Listing (Continued)

```
IAPMSP
        J11 P16 Input Actual Port Motor Speed
IAPSSP
        Jl1 P18 Input Actual Port Sprocket Speed
        J12 P16 Input Actual Port Waterjet Speed
IAPWSP
IASBCN
        J13 P5 Input Actual Starboard Bucket Angle
IASMSP
        J11 P17 Input Actual Starboard Motor Speed
IASSSP
         J11 P19 Input Actual Starboard Sprocket Speed
IASWSP
        J12 P17 Input Actual Starboard Waterjet Speed
         J13 P1 Input Desired High Motor Speed
IDHMSP
IDHMSR
         J13 P2 Input Desired High Motor Speed Ratio
IDTRNR
         J13 P3 Input Desired Turn Radius
IENCTM
         J14 P7 Input Engine Coolant Temperature
INTCPT
         Intercept
         J14 P3 Input Port Aft Motor Pressure
IPAMPR
I PFMPR
         J14 P1 Input Port Forward Motor Pressure
IPHOTM
         J14 P5 Input Port Hydraulic Oil Temperature
I SAMPR
         J14 P4 Input Starboard Aft Motor Pressure
ISFMPR
         J14 P2 Input Starboard Forward Motor Pressure
ISHOTM
         J14 P6 Input Starboard Hydraulic Oil Temperature
JCAR10
         Parallel I/O card pointers for SBIT function calls
JCAR11
         Parallel I/O card pointers for SBIT function calls
JCAR12
         Parallel I/O card pointers for SBIT function calls
JCAR13
         Parallel I/O card pointers for SBIT function calls
JCAR14
         Parallel I/O card pointers for SBIT function calls
         Parallel I/O card pointers for SBIT function calls
JCAR15
JCAR16
         Parallel I/O card pointers for SBIT function calls
JCAR9
         Parallel I/O card pointers for SBIT function calls
JCARD1
         Parallel I/O card pointers for SBIT function calls
JCARD2
         Parallel I/O card pointers for SBIT function calls
JCARD3
         Parallel I/O card pointers for SBIT function calls
JCARD4
         Parallel I/O card pointers for SBIT function calls
         Parallel I/O card pointers for SBIT function calls
JCARD5
JCARD6
         Parallel I/O card pointers for SBIT function calls
```

Table 3.2-1 ATR Program Variable Listing (Continued)

```
JCARD7
        Parallel I/O card pointers for SBIT function calls
JCARD8
        Parallel I/O card pointers for SBIT function calls
LAND
        Landborne
LBCLSF
        Error Flag
LBRPSF
        Error Flag
LBSPSF
        Error Flag
LCSVSF
        Error Flag
LEOPSF
         Error Flag
LOW
        Low Gear
LPCPSF
         Error Flag
LPHLSF
        Error Flag
LSCPSF
         Error Flag
LSHLSF
         Error Flag
LSPPSF
         Error Flag
LSTRNS
         Land/Sea Transition Flag
LVSVSF
         Error Flag
MASK
         16-element array that is used to build masks for TBIT, SBIT, and
         ERROUT
MAXMSP
        Maximum Motor Speed
MAXWSP
         Maximum Waterjet Speed
MBPON
         Motor Bypass On
MLTSSF
         Error Flag
MNBPON
         Motor No Bypass On
MOOPCC
         Mode of Operation Change Complete
MSSF
         Error Flag
NAME
         Name of variable that SBITS operates on
NTRAL
         Neutrla
P1SCSF
         Error Flag
P2SCSF
         Error Flag
P3SCSF
         Error Flag
P4SCSF
         Error Flag
P5SCSF
         Error Flag
```

Table 3.2-1 ATR Program Variable Listing (Continued)

```
PAMHSF
         Error Flag
PAMLSF
         Error Flag
PAMTPR
         Port Aft Motor Pressure
PARK.
         Park
PATYV
         J8 P3 Port Aft Transmission Valve Voltage
PCFWBP
         Primary Cooling Fan, Waterjet Bypass
PCFWNP
         Primary Cooling Fan, Waterjet No Bypass
POIFP
         Port Differential Pressure
PDMOOP
         Present Desired Mode of Operation
PFMHSF
         Error Flag
PFMLSF
         Error Flag
PEMTPR
         Port Forward Motor Pressure
PETVV
         J8 P1 Port Forward Transmission Valve Voltage
PGC SSF
         Error Flag
PHOTEM
         Port Hydraulic Oil Temperature
PHOTSF
         Error Flag
PMDFP
         Port Motor Differential Pressure
PMDIS
         Port Motor Displacement
PMTRQ
         Port Motor Torque
PPDFP
         Port Pump Differential Pressure
PPDIS
         Port Pump Displacement
PPMEFF
         Port Pump Mechanical Efficiency
PPTRO
         Fort Pump Torque
         Present Mode of Operation
PRMOOP
PTREFF
         Port Transmission Efficiency
RCLSSF
         Error Flag
REPP
REPPP
REPPT
REPSP
REPST
```

REPT

Table 3.2-1 ATR Program Variable Listing (Continued)

```
RES
         J9 P1 Real Engine Speed
RESULT
         Test variable for TBIT function
REVRSE
         Reverse
         Mask word for SBITS function
RMASK
RPMS
         J9 P4
RPSS
         J9 P10
RPMS
         J9 P5
RSSS
         J9 P11
S1SCSF
         Error Flag
S2SCSF
         Error Flag
S3SCSF
         Error Flag
S4SCSF
         Error Flag
S5SCSF
         Error Flag
SAMHSF
         Error Flag
SAMLSF
         Error Flag
SAMTPR
SATVV
         J8 P4 Starboard Aft Transmission Valve Voltage
SDIFP
         Starboard Differential Pressure
SEA
         Seaborne
SECFOF
         Secondary Fan Off
SEWPSF
         Error Flag
SFMHSF
         Error Flag
SFMLSF
         Error Flag
SFMTPR
SF TVV
         J8 P2 Starboard Forward T: nsmission Valve Voltage
SHOTEM
         Starboard Hydraulic Jil Temperature
SHOTSF
         Error Flag
SLOWER
         Suspension Lower bit pattern
SLTRNS
         Sea/Land Transition Flag
SMDFP
         Starboard Motor Differential Pressure
SMDIS
         Starboard Motor Displacement
SMTRQ
         Starboard Motor Torque
```

Table 3.2-1 ATR Program Variable Listing (Continued)

```
SPDFP
         Starboard Pump Differential Pressure
SPDIS
         Starboard Pump Displacement
         Starboard Pump Mechanical Efficiency
SPMEFF
SPTRQ
         Starboard Pump Torque
STAR10
         Starting bit pointer for SBIT function
STAR11
         Starting bit pointer for SBIT function
STAR12
         Starting bit pointer for SBIT function
         Starting bit pointer for SBIT function
STAR13
STAR14
         Starting bit pointer for SBIT function
         Starting bit pointer for SBIT function
STAR15
         Starting bit pointer for SBIT function
STAR16
STAR9
         Starting bit pointer for SBIT function
START
         Starting bit pointer for SBIT function
START1
         Starting bit pointer for SBIT function
         Scarting bit pointer for SBIT function
START2
         Starting bit pointer for SBIT function
START3
START4
         Starting bit pointer for SBIT function
START5
         Starting bit pointer for SBIT function
START6
         Starting bit pointer for SBIT function
START7
         Starting bit pointer for SBIT function
START8
         Starting bit pointer for SBIT function
STREFF
         Starboard Transmission Efficiency
SUDOWN
SURISE
         Bit pattern to raise suspension
TBIT
         Function name
TDELAY
         Time Delay
TEST1
         Temporary variable for SENGER
TEST2
         Temporary variable for SENGER
TEST3
         Temporary variable for SENGER
TIMER
         Main loop time delay counter
TRKSTP
         Time delay for Truck Stop
TRNDIR
         Turn Direction
```

Table 3.2-1 ATR Program Variable Listing (Continued)

TRNSTN	Transition
TSSF	Error Flag
WIDT10	Field width pointers for SBIT function
WIDT11	Field width pointers for SBIT function
WIDT12	Field width pointers for SBIT function
WIDT13	Field width pointers for SBIT function
WIDT14	Field width pointers for SBIT function
WIDT15	Field width pointers for SBIT function
WIDT16	Field width pointers for SBIT function
WIDT9	Field width pointers for SBIT function
WIDTH	Field width pointers for SBIT function
WIDTH1	Field width pointers for SBIT function
WIDTH2	Field width pointers for SBIT function
WIDTH3	Field width pointers for SBIT function
W1DTH4	Field width pointers for SBIT function
WIDTH5	Field width pointers for SBIT function
WIDTH6	Field width pointers for SBIT f action
WIDTH7	Field width pointers for SBIT function
WIDTH8	Field width pointers for SBIT function
WJCNST	Waterjet Constant

Table 3.2-2 Error Message Listing

ford #	Bit #	Error #	Error Message	Subroutine	Variable Name
۰,	•	<b>4</b>	ACCEL DEDA! SENSOB HIGH EATLINGE	ANI CTN	(BYHWHU)
י רי	r u	2.5	DEDAL SENSON HIGH	ANIGIN	
o (	o <b>*</b>	20	FOTBIC DIES	CECER	(Araborn)
7 -	<u>.</u>	S &		CENGER	(RKNDSE)
- (°	۷ ۲	30	RDAKE DEDAI DOTENTIONETED EBILIDE	ANI GTE	(DAMACE)
o <b>≂</b>	<b>5</b> (4	20		FREDIN	(AFNSE)
<b>.</b> .~	o Lr	ţ <i>u</i>	FIGURE CENTER AND A LONG CONTROLL OF THE CENTER OF THE CEN	SENGER	(FIRESE)
	٠ <del>٣</del>	3.	FORWARD FLECTRIC BILGE PUMP FAILURE	SESEA	(FEBPSF)
. <del></del>	? <b>-</b> -	; <del>-</del> -	GEAR SELECTOR SWITCH FAILURE	SEGMT	(6SSF)
۰ -	, <u>t</u>	<u>, L</u>	CONTROL SYSTEM 1	SEVOS	(HCSVSF)
1 (*)	7	36		ANLGIN	(ENCTSF)
ı m	. 00	40		ANLGIN	(PHOTSF)
o 673	, o	41		ANEGIN	(SHOTSF)
	91	16		SEVOS	(HVSVSF)
۰ ۵	10	32	HYDRAULIC BILGE PUMP FAILURE	SESEA	(HBPVSF)
	<u></u> 40	0 إ	HYDRAULIC FILTER BY-PASS FAILURE	SENGER	(HEBPSE)
ım	10	42	INADVERTENT BRAKE APPLICATION	ANLGIN	(INBPSF)
) <b>ç</b> -14	7	۰۰,	LOW BRAKE AND CLUTCH LUBE PRESSURE	SENGER	(LBCLSF)
	. <b>c</b> c	. α	BRAKE SUPPLY PRESSURE	SENGER	(LBCLSF)
~	,	17		SEVOS	(TCSASE)
۱	, o	; on		SENGER	(LEOPSF)
٠,-	10	10		SENGER	(LPCPSF)
l <del>1</del> -	1	11	PORT	SENGER	(LPHLSF)
ı <del>,</del> -	12	12		SENGER	(LSPPSF)
۱	<u>~</u>	(T)		SENGER	(LSCPSF)
, ۱	14	14		SENGER	(LSHLSF)
· ~	, ~	18	COM VEHICLE SYSTEM VOLTAGE	SEVOS	(LVSVSF)
- ،	1.00	2	MODE SELECTOR SWITCH FAILURE	SEGMT	(MSSF)
i (*)	· [	43		ANLGIN	(PAMESE)
o eri	2	44	AF	ANLGIN	(PAMLSF)
) (*)	I (*)	45	BUCKET POTENT	ANLGIN	(APBCSF)
) (°	14	46		ANLGIN	(PEWHSE)

Table 3.2-2 Error Message Listing (continued)

Variable Name	(PFMLSF)	(APMSF)	(APSSF)	(P1SCSF)	(P2SCSF)	(P3SCSF)	(PASCSF)	(PSSCSF)	(APWSF)	(PGCSSF)	(RCLSSF)	(SAMHSF)	(SAMLSF)		(ASBCSF)	(SFMHSF)		(SEMLSE)		(AVEVA)	(ASSSF)	(S1SCSF)	(S2SCSF)	(S3SCSF)	(S4SCSF)	(S5SCSF)	(ASMSF)	(SEMPSF)	(DTRNSF)	(TSSF)	(MLTSSF)
Subroutine	ANLGIN	FREGIN	FREGIN	SEVOS	SEVOS	SEVOS	SEVOS	SEVOS	FREGIN	SESEA	SESEA	ANLGIN	ANLGIN		ANLGIN	ANLGIN		ANLGIN		FREGIN	FREÇIN	SEVOS	SEVOS	SEYOS	SEVOS	SEVOS	FREQIN	SESEA	AMCIN	SEGMT	CHOMP
Error Message	PORT FWD PRESSURE TRANS LOW FAILURE	PORT MOTOR MAG PICKUP FAILURE	PORT SPROCKET MAG PICKUP FAILURE	PORT NO 1 SUSPENSION FAILURE	NO 2 SUSPENSION	NO 3 SUSPENSION	NO 4 SUSPENSION	NO 5 SUSPENSION	PORT NATERJET MAG PICKUP FAILURE	NOT CLOSED	RAMP NOT CLOSED AND LATCHED	STARBOARD AFT PRESSURE TRANS HIGH	STARBOARD AFT PRESSURE TRANS LOW	FAILURE	POTENT	STARBOARD FWD PRESSURE TRANS HIGH	FAILURE	STARBOARD FWD PRESSURE TRANS LOW		MCIOR MAG PIO	SPROCKET MAG PIC			STARBOARD NO 3 SUSPENSION FAILURE	NO 4 SUSPENSION	NO 5	STARBOARD WATERJET MAG PICKUP FAILURE	PUMP FAILURE	STEERING MECHANISM SENSOR FAILURE	TRANSMISSION SELECTOR SWITCH FAILURE	VEHICLE SPEED EXCESSIVE FOR MODE CHANGE
Error #	47	52	26	19	20	21	22	23	29	33	34	48	49		20	51		52	ļ	27	α.) <b>LO</b>	25	56	27	28	29	9	35	53	m	61
81t	15	7	œ	က	4	S	ý	7	13	<b>-</b>	2	16	П		ζ,	ო		4		S)	10	o	10	11	12	13	<b>,</b> – 1	m	π)	ო	12
Word #	ო	<+	4	7	8	2	:4	2	4	ო	ന	ო	₹7		<b>~</b> 3	4		₹		4	₹	2	2	Ci	. 62	~	4	· m	4	П	4

### 4.0 TERRA COMPUTER DESCRIPTION

The purpoe of the Terra computer is to display error messages that are generated by the SC-1. At present, four 16-bit words transfer 60 error messages from the SC-1 via the RS-232 communications port. It is the responsibility of the Terra computer to decode and display and new error messages that have arrived over the communication link. Table 4.0-1 provides a listing of all the error messages for the ATR.

The Terra computer maintains three display screens. They are: the alarm screen, the error log screen, and monitor the screen. The alarm and error log creens are divided into two parts: the top part which displays alarm or log information, and the bottom part which displays communication requests fro the Miltope recorder and allows for the entering of pre-and post-test annotation. The monitor screen is activated by keyboard command.

When error messages are interpreted by the Terra the following sequence of events will occur as shown in Figure 4.0-1.

- A new error will cause the warning light to come on and the warning tone to be activated, and the error message to be displayed in the upper left corner of the screen. All error messages that arrive have an asterisk placed in front of their text until they are acknowledged by the operator by either turning off the warning tone or light. When the errors are acknowledged, a blank space replaces the asterisk. It is possible for an error to become inactive before the operator can acknowledge the error, in that case the error is deemed to be interittent, and a question mark replaces the asterisk.
- o Once an error is acknowledged by turning off either the light or the tone, and that error becomes inactive, the blank space is replaced by a minus sign.
- o If that error again becomes active the minus sign is replaced by a plus sign.
  - If the error once again becomes inactive the plus sign is replaced with the question mark which means that the error is judged to be unreliable or intermittent.

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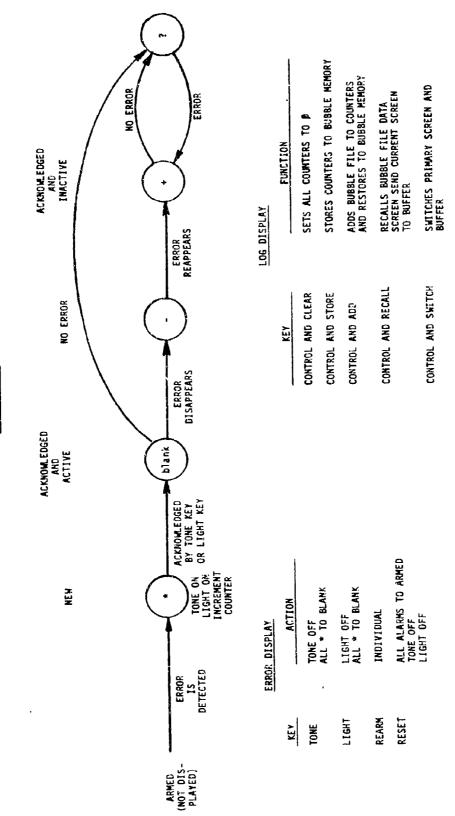


Figure 4.0-1 Flowchart Of Error Message Display

- At any point it is possible to rearm (reset) any individual alarm by use of the REARM key (with the cursor pointed to the desired error) or the rearm all alarms by use of the RESET key.
- Any time any alarm (including intermittents) goes from inactive to active the log count for that error increases by one.

The log screens have five function keys associated with them.

## They are:

CLEAR - Clears all counters to zero.

STORE - Saves the current error log into the stored error log (overwrites it).

ADD - Adds current to stored.

RECALL - Makes the stored error log the current one (overwrites the current error log).

SWITCH - Displays the log screen that is presently not displayed (does not affect either the current or stored error log).

To clarify, there are two screens available for viewing while the vehicle is functioning. They are the alarm screen and the log screen. It is possible to toggle the log screen between the current error display and the stored error display by means of the SWITCH function key. The SWITCH function key does not affect the values in either current or stored error logs.

#### MILTOPE RECORDER DESCRIPTION

5.0

The Miltope recorder used in the ATR vehicle has been reconfigured to provide a parallel communications interfac format with the SC-1 computer. This format has been installed to speed the communications process so that variables can be recorded at .01 second intervals.

Recording operations are initiated by loading a tape into the recorder, turning the recorder power on and simultaneously depressing the CONTROL key and the "R" key. This indicates that a data recording operation is desired and the tape will be rewound and the recorder head will be positioned to the number one track. No previously recorded data can be saved if a used tape is put into the recorder.

The Terra computer then responds by asking for the current date and time. Upon responding, the Terra will ask if any pre-test annotation is desired. If Y is depressed, the Terra will respond by asking what pre-test annotation is desired. If any other key is depressed no pre-test annotation will be possible. If the maximum number of lines of pre-test annotation (24 lines) are entered, or the return key is depressed twice an end to the pre-test annotation will be encountered. The Terra will then respond with the following statement: "To begin data recording activity, hit CONTROL S."

Once the data recording operation is underway, it can be terminated by one of two ways; either CONTROL T can be activated or the tape can come to the end of its track. If the recording of data is terminated before an end of track condition occurs, the Terra will ask if any post-test annotation is desired. If Y is depressed, the Terra will ask what post annotation is desired. Depressing any other key will indicate an end to the data recording activity. If the maximum number of lines of post-test annotation (24 lines) are entered, or the return key is depressed twice, an end to the data recording activity is encountered, the tape recorder will automatically rewind and switch to the next track, if possible. If the maximum number of tracks have been recorded, the Terra will display the following: "Tape full. Replace or depress CONTROL R to write over existing records."

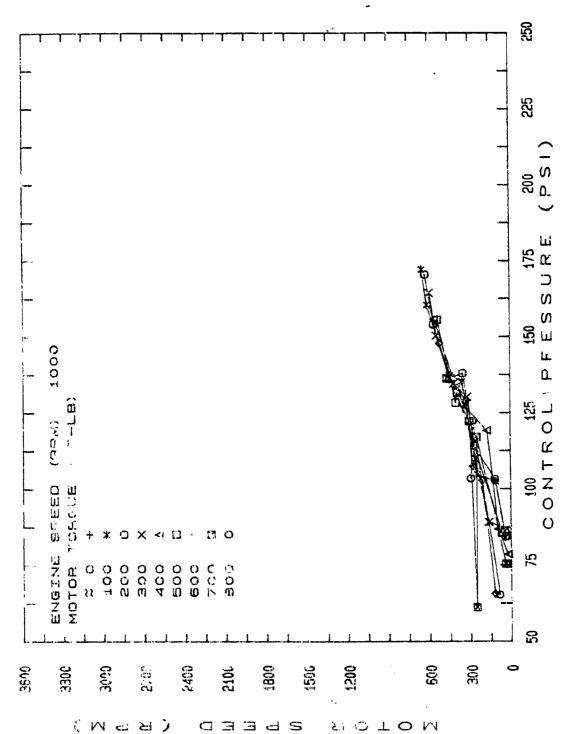
Up to four tracks of data can be recorded on each tape. Each track should contain approximately 20 minutes of data recorded at a rate of 50 variables every .01 seconds.

#### TRANSMISSION YEST RESULTS

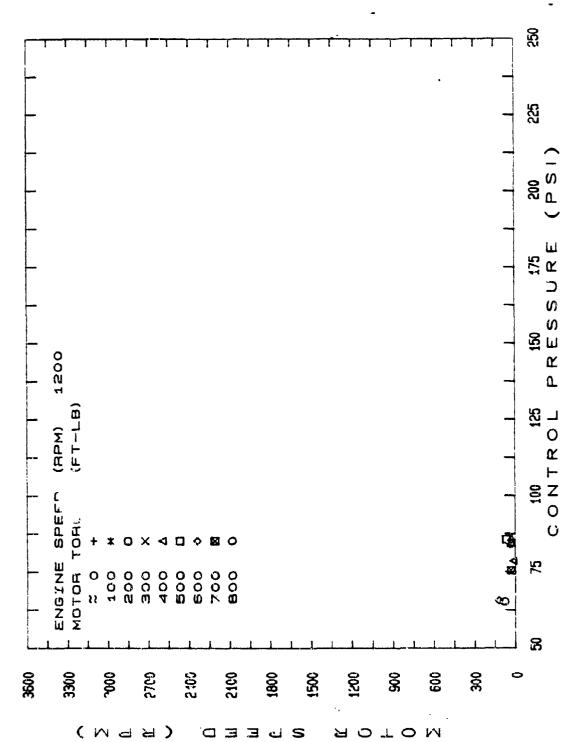
6.0

To improve the performance of the transmissions in the ATR vehicle, as compared to the performance obtained in the previously developed Hydrostatic Test Platform, SwRI performed a series of dynamometer tests with Quinto Lubric 822-220 hydraulic fluid. This fluid has superior viscosity over the MIL-H-83282 fire-resistant hydraulic fluid which was previously used.

The test results are presented in graphical form in Figures 6.0-1 through 6.0-10 which show the expected motor speed as a function of control pressure. The predicted efficiency of the transmissions during actual operation is shown in Figures 6.0-11 through 6.0-20. These test results indicate a significant operating improvement of the transmissions using the Quinto Lubric fluid as compared to the MIL-H fire-resistant hydraulic oil. Test results regarding the use of this fluid were presented in a report entitled "Design and Integration of Hydrostatic Transmission in a 300 HP Marine Corps Amphibious Armored Personnel Carrier," prepared under Contract No. N00167-82-C-0156 for the David Taylor Naval Ship Research and Development Center, dated March 1985.

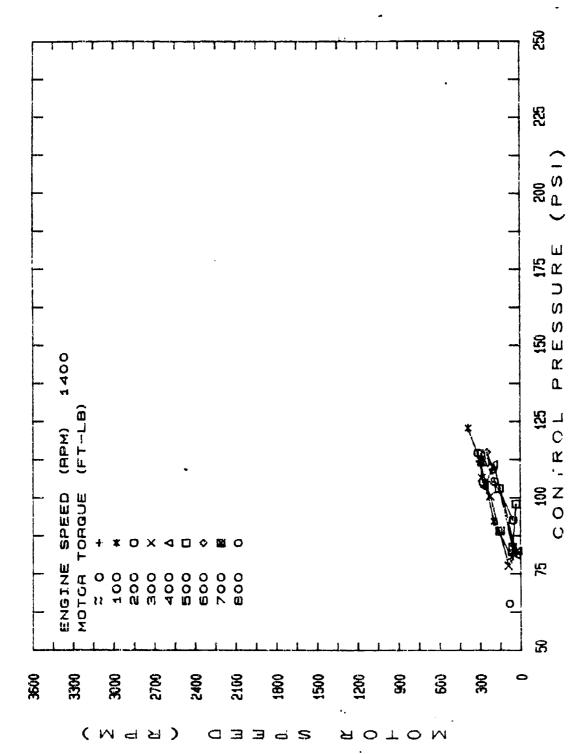


APM. 1000 PRESSURE SPEED OF CONTROL ENGINE ISMISSION MOTOR SPEED VERSUS VARIOUS MOTOR TORQUES AT AN THANSMISSION MUTOR FOR

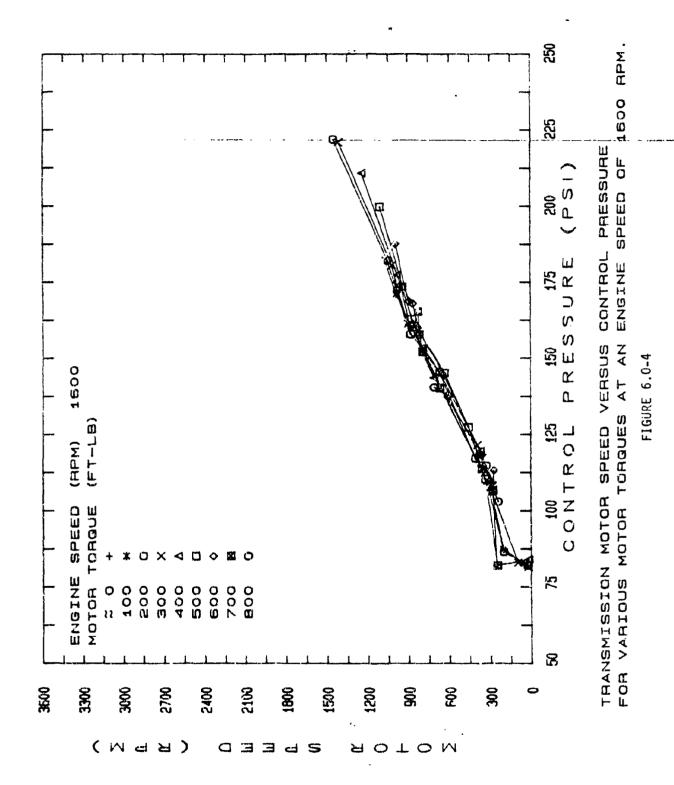


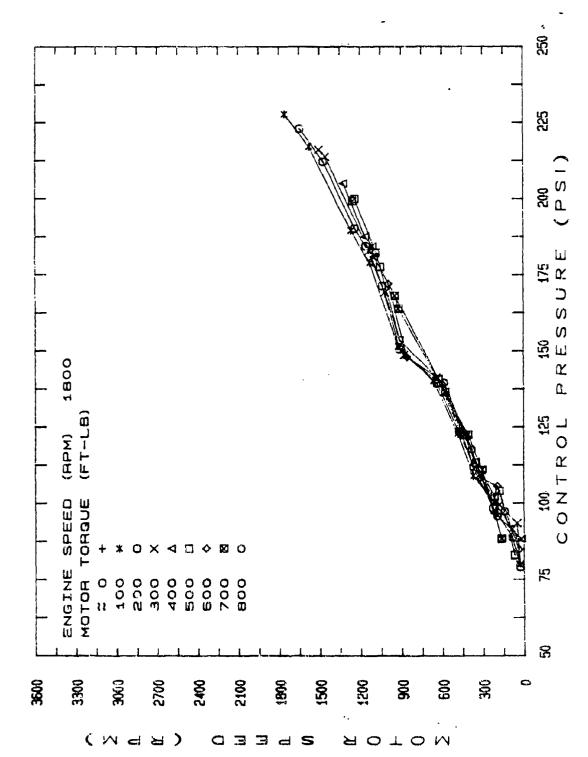
ĺ

E E 1200 CONTROL PRESSURE ENGINE SPEED OF THANSMISSION MOTOR SPEED VERSUS FOR VARIOUS MOTOR TORQUES AT AN

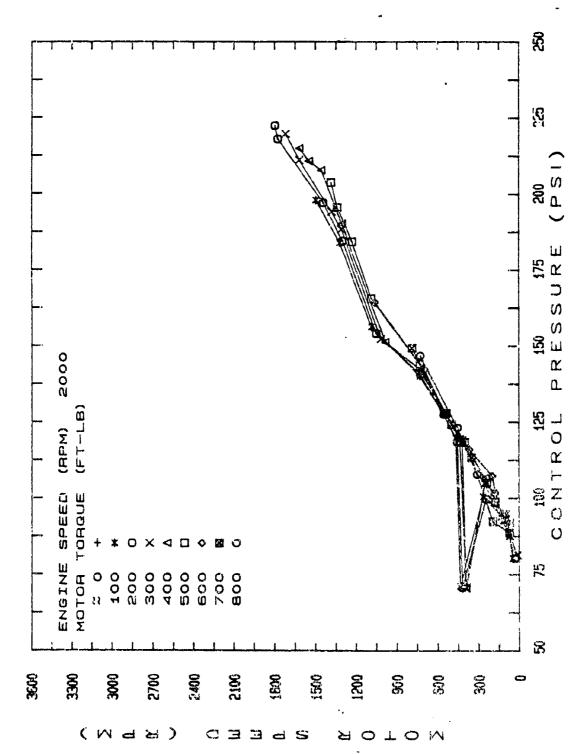


HPM. 1400 PRESSURE SPEED OF CONTROL ENGINE TRANSMISSION MOTOR SPEED VERSUS FOR VARIOUS MOTOR TORQUES AT AN

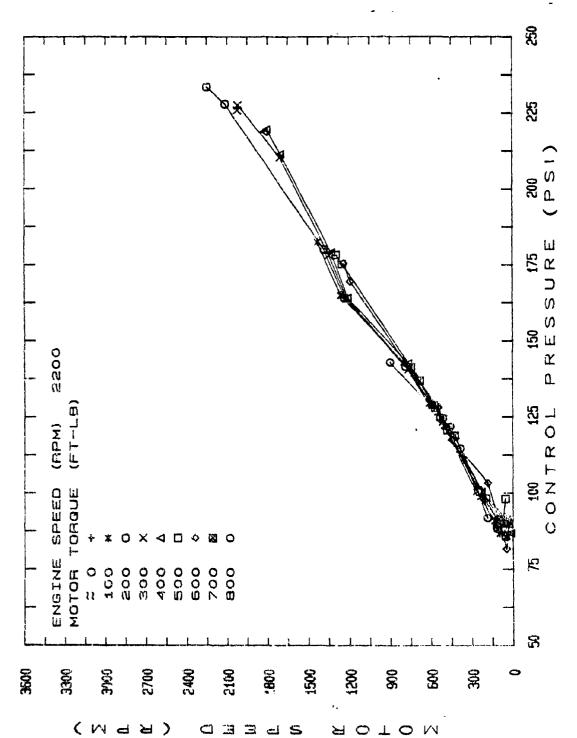




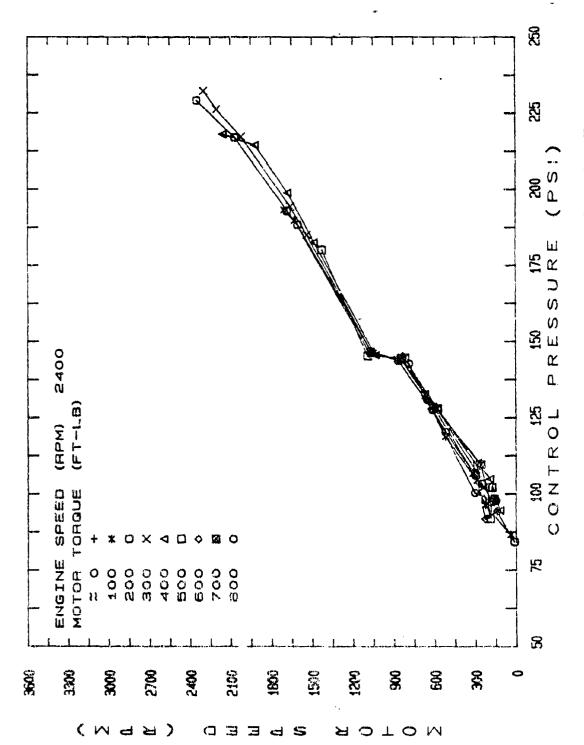
ΣCH ENGINE SPEED OF 1800 CONTROL PRESSURE FOR VARIOUS MOTOR TORQUES AT AN TRANSMISSION MOTOR SPEED VERSUS



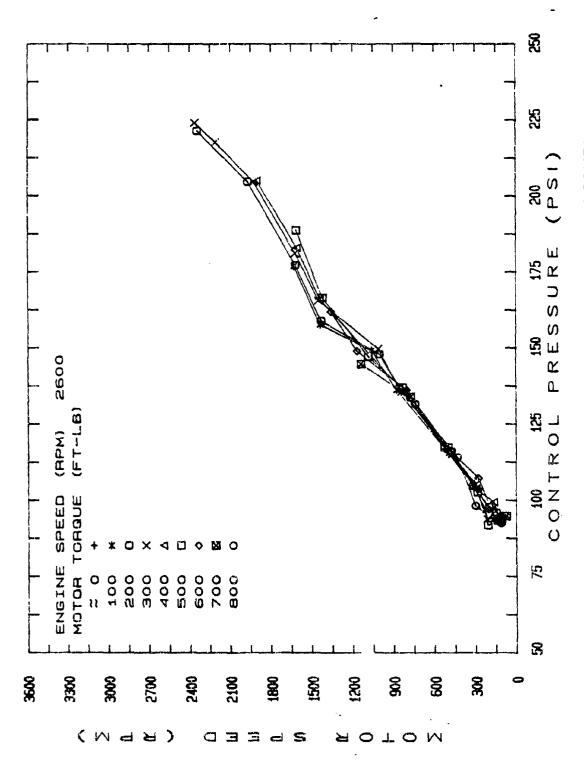
2000 RPM. PRESSURE SPEED OF CONTROL ENGINE AT AN THANSMISSION MOTOR SPEED VERSUS FOR VARIOUS MUTOR TORQUES



nda M 2200 CONTROL PRESSURE SPEED OF ENGINE THANSMISSION MOTOR SPEED VERSUS FOR VARIOUS MOTOR TORQUES AT AN

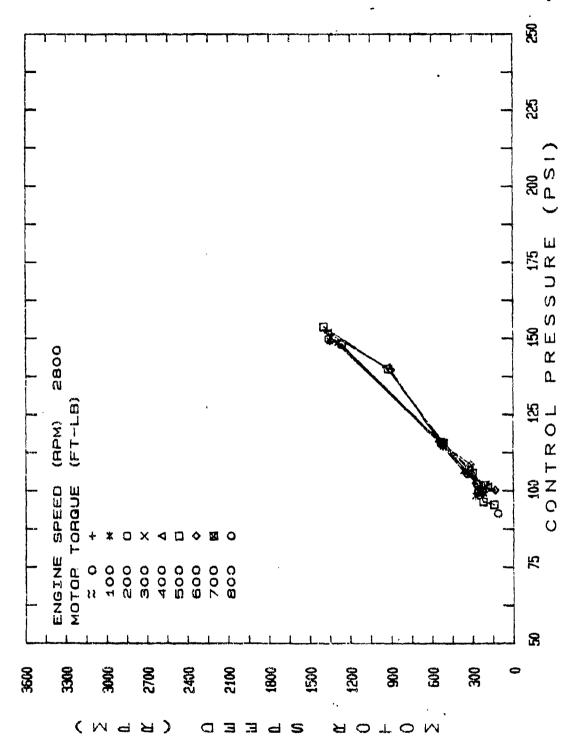


2400 RPM. CONTROL PRESSURE SPEED OF ENGINE TRANSMISSION MOTOR SPEED VERSUS FOR VARIOUS MOTOR TORQUES AT AN

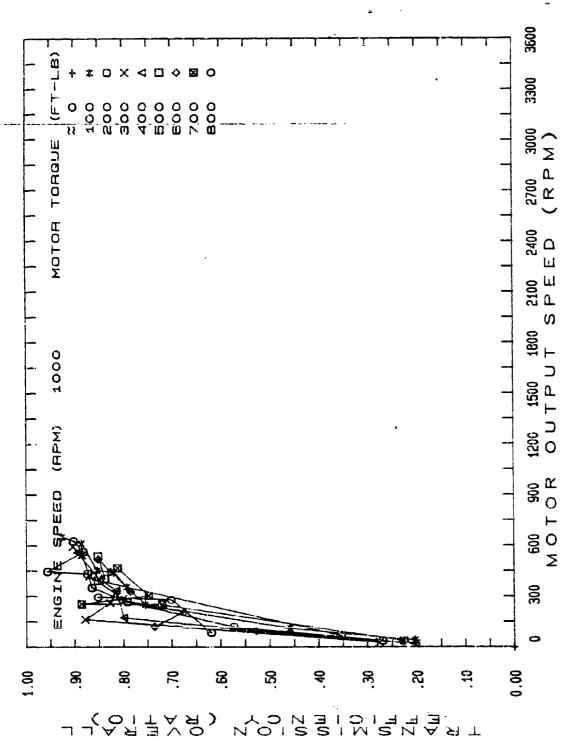


2600 RPM. PRESSURE SPEED OF CONTROL ENGINE TRANSMISSION MOTOR SPEED VERSUS VARIOUS MOTOR TORQUES AT AN FOR

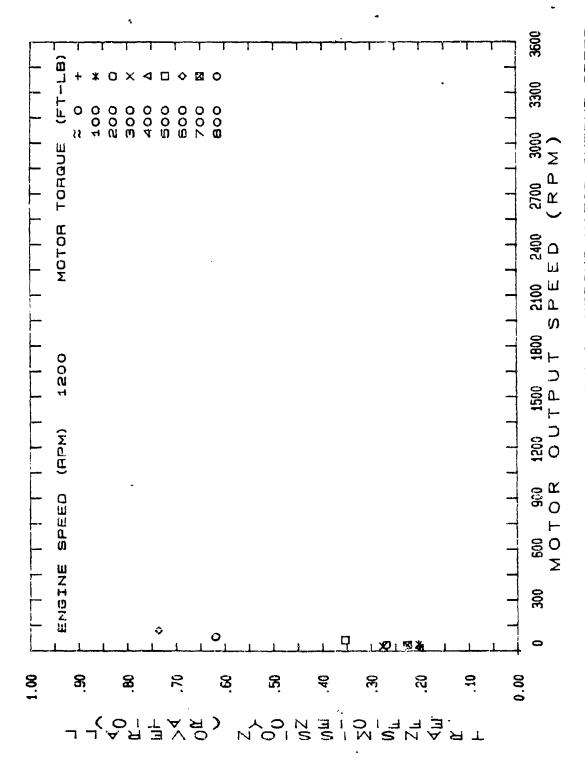
1 一直機関連



2800 RPM. CONTROL PRESSURE SPEED OF ENGINE TRANSMISSION MOTOR SPEED VERSUS FOR VARIOUS MOTOR TORQUES AT AN



**OUTPUT SPEED** OF 1000 RPM. TRANSMISSION OVERALL EFFICIENCY VERSUS MOTOR SPEED ENGINE FOR VARIOUS MOTOR TORQUES AT AN



OUTPUT SPEED OF 1200 APM. VERSUS MOTOR ENGINE SPEED THANSMISSION OVERALL EFFICIENCY FOR VARIOUS MOTOR TORQUES AT AN

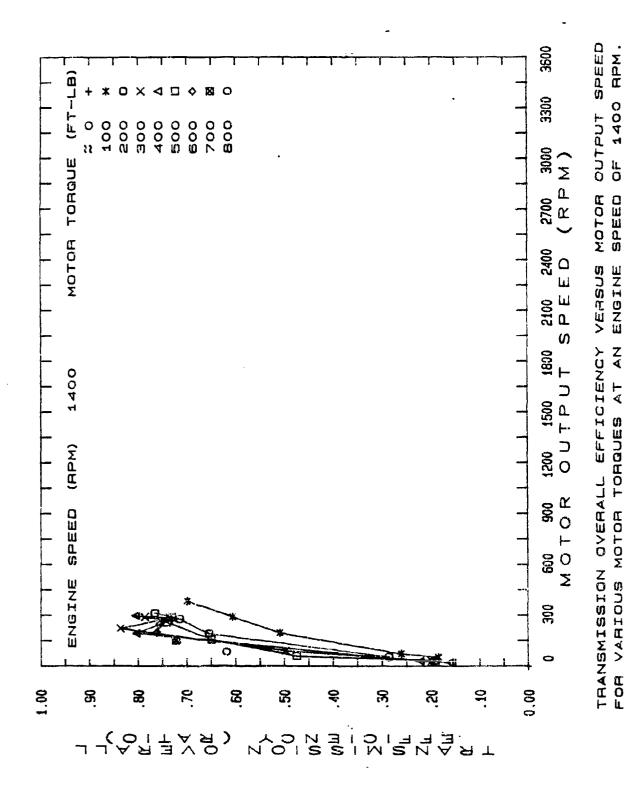
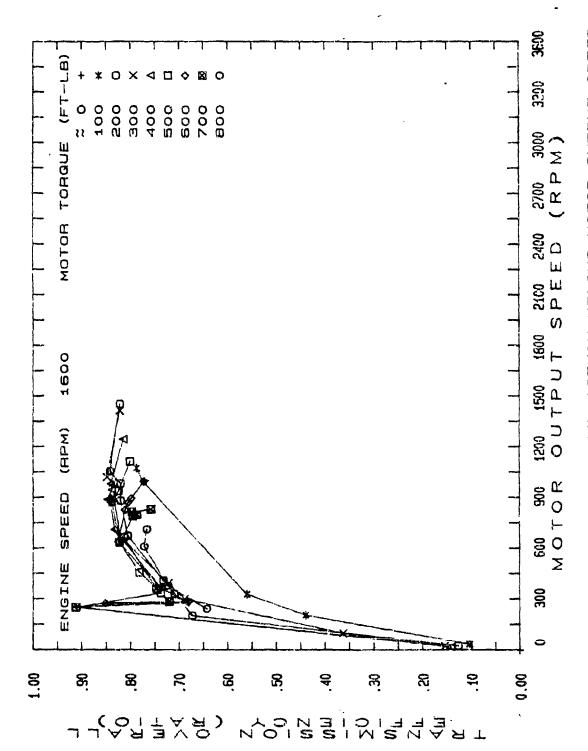


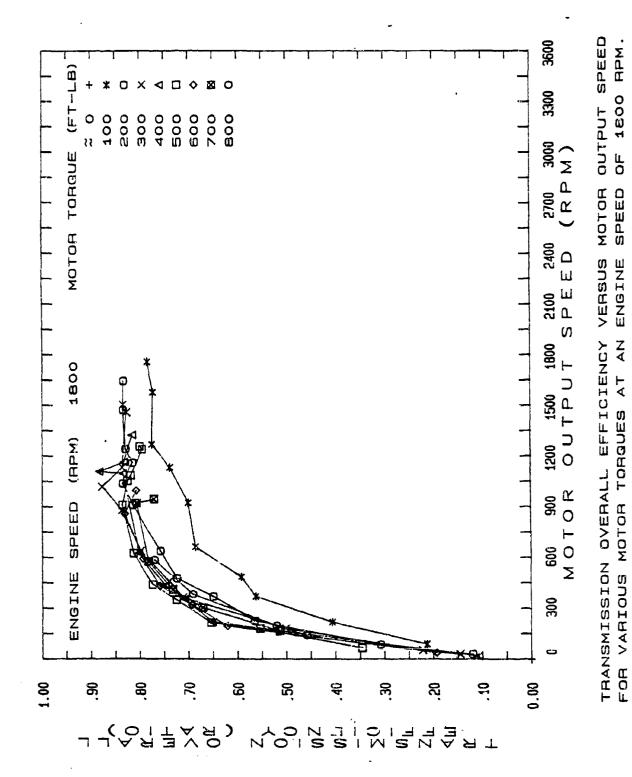
FIGURE 6.0-13

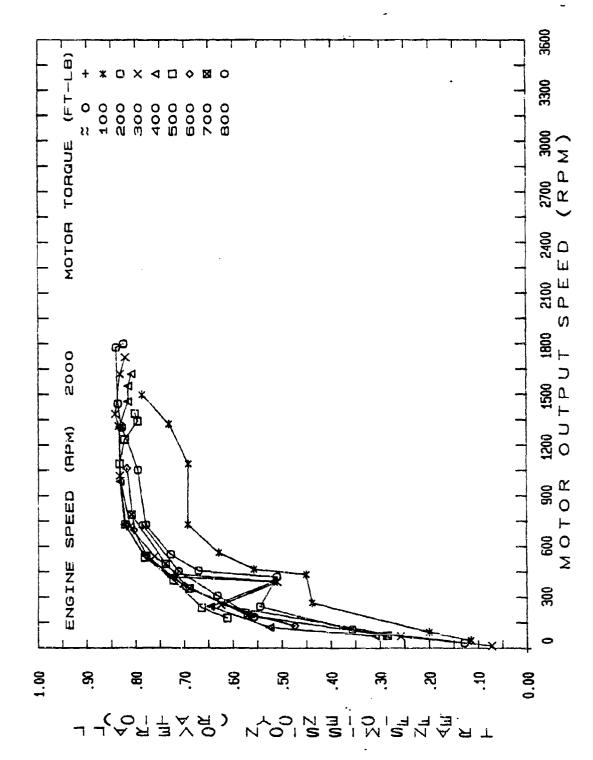


OUTPUT SPEED OF 1600 RPM. MOTOM SPEED EFFICIENCY VERSUS **HNG1N** FOR VARIOUS MOTOR TORQUES AT AN TRANSMISSION OVERALL

FOR

OF 1800 HPM.





OUTPUT SPEED 2000 RPM. PO TRANSMISSION OVERALL EFFICIENCY VERSUS MOTOR SPEED ENGINE FOR VARIOUS MOTOR TORQUES AT AN

OUTPUT SPEED OF 2200 RPM. VERSUS MOTOR SPEED ENGINE TRANSMISSION OVERALL EFFICIENCY FOR VARIOUS MOTOR TORQUES AT AN

FÍGURE 5.0-17

SE

200 000 87 NO NO

ΧЯ;

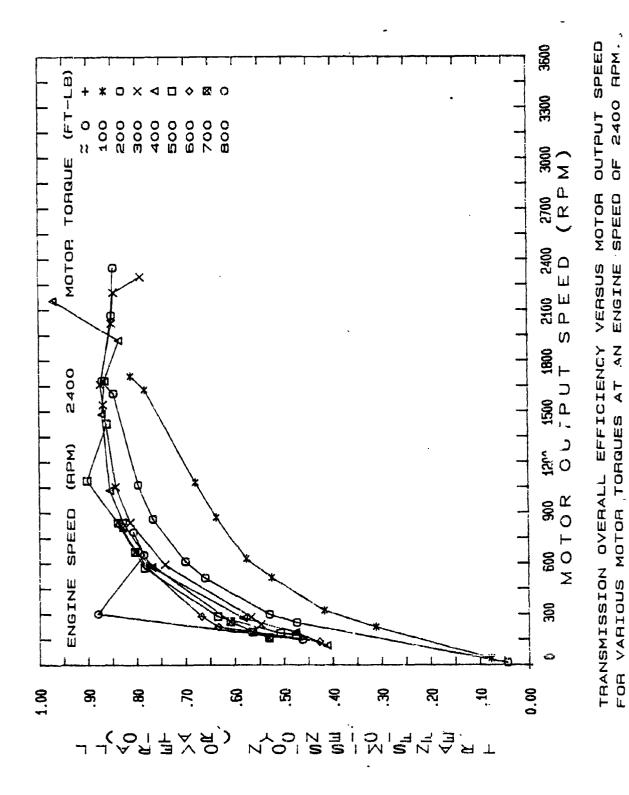
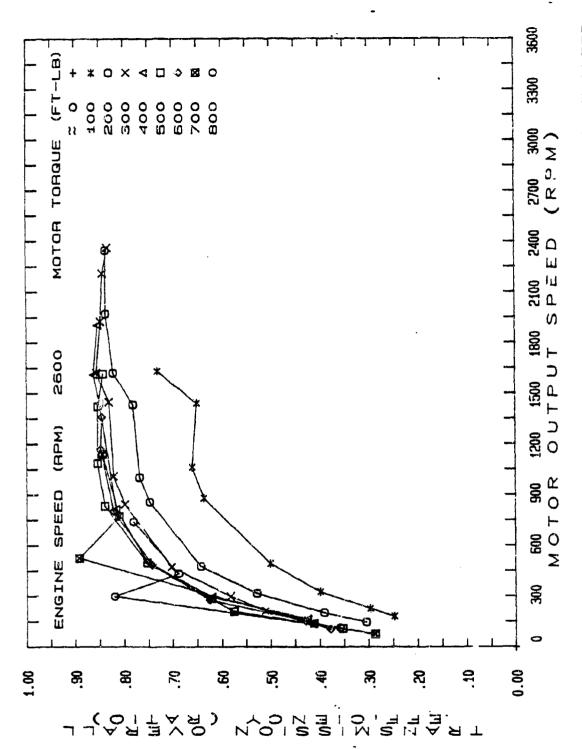
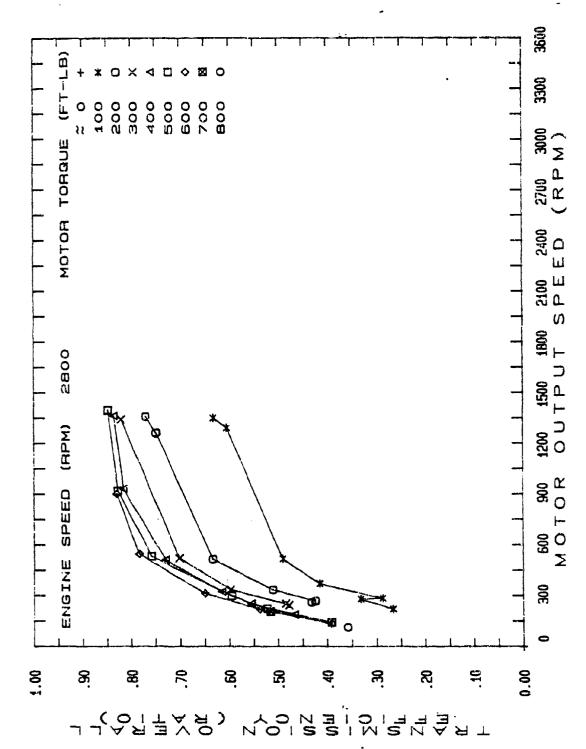


FIGURE 6.0-18



MOTOR OUTPUT SPEED 2500 RPM. OF SPEED THANSMISSION OVERALL EFFICIENCY VEHSUS ENGINE FOR VARIOUS MOTOR TORQUES AT AN



OUTPUT SPEED OF 2800 HPM. MOTOR SPEED VERSUS ENGINE EFFICIENCY FOR VARIOUS MOTOR TORQUES AT AN THANSMISSION OVERALL

# 7.0 TRANSMISSION VALVE DEVELOPMENT

Southwest Research Intitute provided the design and fabrication of a new transmission control valve for use in the ATR vehicle. This valve development effort was undertaken because of operational problems encountered while using the production valve supplied with the transmissions by the manufacturer. The operational problems included an intermittent instability and the inability to perform maintenance on the valve.

Figure 7.0-1 shows a cross section of the valve which was supplied. This valve incorporated the double proportional valve which was provided by the original manufacturer, but also incorporates a flip-flop valve and a shuttle valve in the same overall design. Figure 7.0-2 shows the relationship between pressure and control voltage that was obtained from this valve.

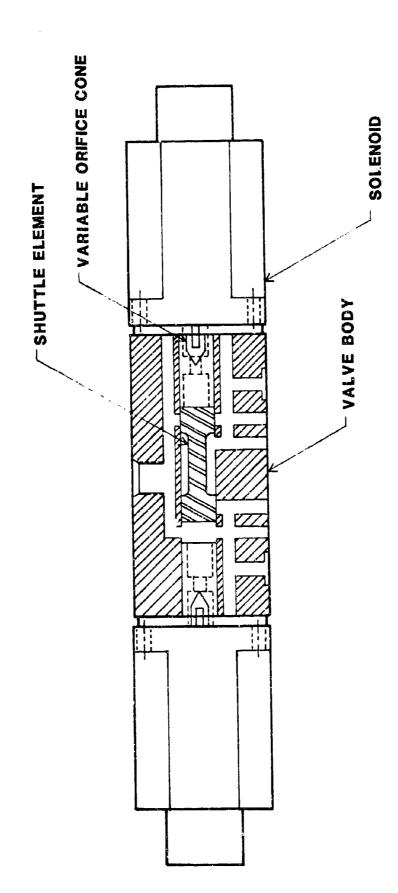


Figure 7.0-1 Transmission Valve Section View

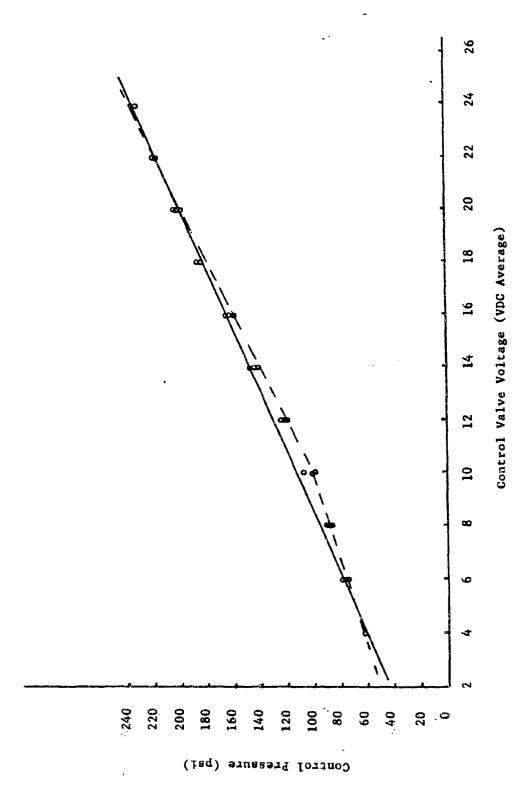


Figure 7.0-2 Control Pressure Versus Control Valve Voltage

Appendix A

ATR Control Software Listing

PILER INVO	KED BY: :	1:FORT36.36" -	F2:ATR.FOR CODE TITLE(13:	25:00 11 DEC.8
<del></del>				
_	ROSKAM A	· · ·	************	
CHRHH	arne ar se ar ar ar ar ar ar Arne ar			
				****
CARRER		PROJECT	AUTOMOTIVE TEST RIG	****
<del>Crrrrr</del>		SFONSOKS:	AAI CORP./DTNSRCDC	****
CHARAR		CONTRACT #:	03-8284-001	***
		PROGRAMER:	BENJAMIN A. TREICHEL SWRI	***
<del></del>	<del></del>	DATE/VERSION:	DEC. 08 1985/V2.1	***
<u>्रिक्सकत्तर</u> क				****
_				
=				
2=1		F2:COMMON.FOR		
2-1 3-1			,BIT3,BIT4,BIT5,BIT6,BIT7,E	1772:117 <b>9</b>
4=1			1712, BIT13, BIT14, BIT15, BIT1	
5=1			1722,B1723,B1724,B1725,B172	
<del>5=1</del>			1732, B1733, B1734, B1735, B173	
7=1			1T42,81T43,81T44,81T45,81T4	
/ <del>3=1</del>		BIT19,BIT29,B		
9-1			BEGINS, BEGINA, BEGINS, BEGIN	6, BEGIN7, BEGIN
<del>ó=1</del>			BEGNII, BEGNIZ, BEGNIZ, BEGNIZ	
1=1			WIDTHS, WIDTHA, WIDTHS, WIDTH	
2-1			WIDTII, WIDTI2, WIDTI3, WIDTI	
3=1	INTEGER#4	JCARDI, JCARDZ	JCARDS, JCARD4, JCARD5, JCARI	J6, JCARD7, JCARI
4=1	INTEGER#4	JCAR7, JCAR10,	JCARII, JCARIZ, JCARIS, JCARIA	, JCARTS, JCART
5-1	INTEGER#4	Dc1,002,003,0	<del>34,063,066,067,068,069,</del> 061(	<del>) — — — — — — — — — — — — — — — — — — —</del>
.6=1	INTEGER#4	DG11,DG12,DG1	3,DG14,DG15,DG16,DG17,DG18,	DG19, DG20
<del>.7-1</del>	INTEGER#4	2021,0022,002	3,0024,0025,NORMAL,POWER	
<del>.:=1</del>	INTEGER#4	<del>- D026, D027, D02</del> ;	5, D027, D030	<del></del>
\ <del>9=1</del>	INTEGER#4	-WIDTH, DECIN, E	ND.RMASK,I,K	
<del>10-1</del>			*, BKNFSF, FGSCSF, INDFSF	
<del>&gt;+=1</del>			,LSRPSF,LSSPSF,LPCPSF	:
2-1	LOGICAL#4	LSCPSF, HFBPSF	, LEOPSF, LPHLSF, LSHLSF	
23=1	LOGICAL#4	TBIT, LSPPSF, F	IRESF	
24=1			, P3505F , P4505F , P3505F	
: <del>5=1</del>			, 335CSF , 545CSF , 553CSF	
6=1		LVSVSF,LCSVSF		
27-1			HBPVSF, FEBPSF, PGCSSF	
25=1.			, SLTRNS, INTIAL, SETINE	
₹ <b>?=1</b>			, DHMHSF, DHMLSF, DHMRSF, DIRN	
:0-i			, PRIMESE, PENILSE, SEMMSE, SEML	بار 
1=1		MOOPCC, MLTSSF	PENTSF, PHOTSF, SHOTSF	
32=1 33=1			oreniki SGPMofizGPMofilmeonClTCH	
30=1 50=1			ooph, Fizoph, Fiinz, NCC (Ch PMSF, ASSSF, ASMSF, APWSF, ASW	<b>21</b>
;;;;;=;; <del>}5=1</del>		<del>PATVV.PFTVV.S</del>		∪ı <sup>-</sup> 
36=1		•	<del>, idhmép, idhmer, ipampr, ipf</del> m	PR
3 <del>7=1</del>			· IENCYM, IPHOTM, ISHOTM, IDTR	
35=1 	INTEGERA			
3 <del>9=1</del>		DIGIN(3), SUSM	30, N&U3M0	
40=1			EA, FARK, NTRAL, REVRSE, DRIVE	.HIGH.LODW
41=1		- ". · · · · · · · · ·	EST3, HYSPSS, HYNSPS, ENGNON,	
4 <del>2-1</del>		CKPUMP, CKRAMP		
<del>4:3=1</del>		CKFSLT,CKRSLI		
s and the second			The state of the second	

44=1	INTEGER#4 IAENSP, IAPMSP, IASMSP, IAPSSP, IASSSP, IAPWSP, IASWSP
	INTEGER*4 DTRST, PRINCEP
- =1	- INTEGER*4 TOELAY, TIMER, DMOOP, PDMOOP, DIGOUT(3)
~ ~ <del>~ 7=1</del>	INTEGER*4 SECFOF, PCFWNP, BLOFON
- <del>-48-1</del>	INTEGER*4 OCTO, GROLSE, GOTO, GROPEN, POPWBP, BLOOFF, SLOWER
- 49=1	INTEGER*4 SUBSWN, DLCVV, BHCVV, MKSPON, MSPON, TRKSTP, SURISE
- 50=1	INTEGER*4 ERROLY: DTDGS; FOTDGS; FTDGS
- <del>- 51-1</del>	INTEGER*4 AUX1, AUX2, AUX3, AUX4, AUX5, AUX6, AUX7, AUX8, IDES
52-1	INTEGER#4 ROMS, RPMS, RSSS, RPSS, RES
- <del>-53-1</del>	INTEGER#4 PTVW.STVV
<del>54-1</del>	REAL+4 APBOAN, ASBOAN, DHMSP, DHMSR, DTRNR, PAMTPR
- <del>55-1</del>	REAL #4 FBR. LLICKST, INTEPT ( 1+1)
56-1	REAL+4 PFMTPR, SPATPR, SAMTPR, ENCTEM, PHOTEM, SHOTEM
- <del>- 57=1</del>	REAL*4 BPMSP, BSMSP, OBHMSP, PNT10, AUX9, AUX10
5 <del>8-1</del>	REAL+4 PHUSP, DHWSR, BPUSP, DSNSP
- <del>59-1</del>	REAL 4 APPS, ASPS, AENSP PMDIS, PMDFP
* <del>- 60=1</del>	REAL 44 PMTRQ, DPMP, REPPT, PTREFF, REPST
- <del> 61=1</del>	REAL#4 APMSP, ASMSF, SMDFF
- 62=1	REAL®4 SHTRQ, DSHP, STREFF, REPT
- <u>- 63=1</u>	
- <del>(41</del>	REAL#4 DPPRT, PDIFF, DPPWJ, DSPRT, SDIFF, DPSWJ REAL#4 FPDIS, PPDFP, APSSP, ASSSP
45-1	REAL#4 PPTRQ, DPPP, REPPP, PPMEPP, REPSP
66-1	REAL *4 SPD13, SPDFP, MAXMSP, TREP, DES
67-1	REAL+4 SPTRO, DSPP, SPMEFF, REPP, ALPMSP, ALSMSP
<del>- 68-1</del>	REAL+4 ALPWSF, ALSWSF, MAXWSF, AUXPOW, TRNPOW, TCRQUE
<del>59=1</del>	REAL*4 K1,K2,K3,K4,K3,K6,K7,K3,K9,K10
<del>70=1</del>	REAL+4 M1, M4, M5, M6, M7, M8, M9
1=1	REAL*4 MI3, MI4, MI3, MI6, MI7, MI3, MI9, M20
=1	REAL#4 M21, M22, M23, M24, M25, M26, M27, M28
- → ,3 <del>-1</del>	REAL *4 M29, M30, M31, M32, M33, M34
74=1-	REAL#4 DHMSFE(4), PAMPR(10), SAMPR(10), FPMPR(10), SFMPR(10)
75-1	INTEGER*4 M2, M3, M10, M11, M12
· <del>- 76-1</del>	INTEGER*4 M35, M36, M37, M38, M39, M40
77=1	INTEGER#4 M41,M42,M43,M44,M45,M46,M47,M48,M49
<del>79=1</del>	COMMON /BITFNC/ BIT, BIT1, BIT2, BIT3, BIT4, BIT5, BIT6, BIT7, BIT3, BIT9
<del>_</del> _	
50-1	COMMON /BITFNC/ BITIO, BITII, BITI2, BITI3, BITI4, BITI3, BITI5, BITI7
31=1 32=1	COMMON /BITFNC/ BIT20, BIT21, BIT22, BIT23, BIT24, BIT25, BIT26, BIT2/
- <del>-</del> -	COMMON /BITFNC/ BITSO, BITSI, BITS2, BITSS, BITS4, BITSS, BITSS, BITSS
83=1	COMMON /BITFNC/ BIT40, BIT41, BIT42, BIT43, BIT44, BIT45, BIT46, BIT47
34=1	COMMON /BITPNC/ BIT19, BIT29, BIT39, BIT49, BIT18, BIT28, BIT38, BIT46
05=1	COMMON /BITFNC/ BEGIN1, BEGIN2, BEGIN3, BEGIN4, BEGIN5, BEGIN5, BEGIN5
56-1	COMMON /BITFNC/ ZEON9; BEGNIO, BEGNII, BEGNIZ, BEGNIZ, BEGNIZ, BEGNIZ
37-1	COMMON /817FNC/ WIDTH1, WIDTH2, WIDTH3, WIDTH4, WIDTH5, WIDTH7
	COMMON /BITFNC/ WIDT9, WIDT10, WIDT11, WIDT12, WIDT13, WIDT14, WIDT15
37:1	COMMON /BITFNC/ BEGINS, BEGNIS, WIDTHS, WIDTIS, JCARDS, JCARIS
90=1	COMMON /BITENC/ JCARDI, JCARDZ, JCARD3, JCARD4, JCARD5, JCARD6, JCARD7
71=1	COMMON /BITFNC/ JCAR9, JCAR10, JCAR11, JCAR12, JCAR13, JCAR14, JCAR15
72=1	COMMON /BITFNC/ DGI, DG2, DG3, DG4, DG5, DG6, DG7, DG8, DG9, DG10
	COMMON /BITFNC/ D011, D012, B013, B014, B015, B016, B017, B018, B019, B020
	COMMON /BITCHC/ BO21, DO22, BO25, BO25, BO25, NORMAL, FOWER
<del>95=1</del>	COMITON /BITFNC/ DOZS, DOZ7, DOZ8, DOZ9, DOZ9, DOZ9
	COMMON /SITENC/ WIDTH, BEGIN, END, RMASK, T, K
7 701	COMMON /ERROR/MSSF, TSSF, OSSF, DKNPSF, PUSCSF, INDFSF
-( :=1	COMMON /ERROR/ HEOTSF, LECLSF, LERPSF, LESPSF, LPCPSF
40004	COMMON /ERROR/ LSCPSF, HFBPSF, LEOFSF, LPHLSF, LSHLSF
<del></del>	COMMON /ERROR/ LSPPSF, FIRESF
101=1	COMMON /ERRUR/ F1SCSF, P2SCSF, P3SCSF, P4SCSF, P3SCSF
	A 2

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102=1	COMMON /ERROR/ S1SCSF,S2SCSF,S3SCSF,S4SCSF,S5SCSF
<u>}_i3≄I</u>	COMMON /ERROR/ LVSVSF, LCSVSF, HVSVSF, HCSVSF
	COMMON /ERROR/ AEBPSF, SEWPSF, HEPVSF, FEBPSF, PGCSSF
<u></u>	COMMON /ERROR/ RCLSSF, LSTRNS, SLTRNS, INTIAL, SFTINP
106=1	COMMON /ERROR/ APBCSF, ASBCSF, DHMHSF, DHMLSF, DHMRSF, DTRNSF
107=1	COMMON /ERROR/ PAMHSF, PAMLSF, PFMHSF, PFMLSF, SFMHSF, SFMLSF
103=1	COMMON /ERROR/ SAMHSF, SAMLSF, ENCTSF, PHOTSF, SHOTSF
107=1	COMMON /ERROR/ HOOPCC, MLTSSF, RENTRY
<del></del>	COMMON /ERROR/ NOFAN, F4GPM, F3GPM, F12GPM, F11ME, NCLTCH
111=1	CONTON /ERROR/ AENSF.APSSF.APMSF.ASSSF.ASMSF.APWSF.ASWSF
112=1	COMMON /CINOUT/ IAPBCN, IASBCN, IDHMSP, IDHMSR, IPAMPR, IPFMPR
113=1	COMMON /CINCUT/ ISFMPR: ISAMPR; IENCTM; IPHOTM; ISHOTM; IDTRNR
114=1	COMMON /CINODI/ TRNDIR; DIGIN; DIGODI; SUSMSQ, NSUSMG
115=1	COMMON /CINOUT/ LAND, TRNSTN, SEA, PARK, NTRAL, REVRSE, DRIVE, HIGH, LUW
116=1	COMMON /CINOUT/ TEST1, TEST2, TEST3, HYBPSS, HYNBPS, ENGNON, ENGMSG
117=1	COMMON /CINOUT/ CKPUMP, CKRAMP, CKPLST, CKRLST
118=1	COMMON /CINOUT/ CKPSLT, CKRSL1, CKRSL2
119=1	COMMON /CINOUT/ IAENSP, IAPMSP, IASMSP, IAPSSP, IASSSP, IAPWSP, IASWSP
120=1	COMMON /CINOUT/ DTRST, PRMUUP, ERRULY, DTDGS, PDTUGS, PTUGS
121=1	COMMON /CINOUT/ TPELAY, TIMER, DMOOP, PDMOOP
122=1	COMMON /CINOUT/ SECFOF, PCFWNP, ELGPON
	COMMON /CINOUT/ GCTD, GRCLSE, GOTD, GROPEN, PCFWBP, BLGOFF, S' UWER
123=1	COMMON /CINOUT/ SUDOWN, DECVV, DHCVV, MNDPON, MBPON, TRKSTF, SURISE
124=1	COMMON /CINOUT/ PATVV, PETVV, SATVV, SETVV
125=1	
126=1	COMMON /CINOUT/ AUXI, AUX2, AUX3, AUX4, AUX5, AUX6, AUX7, AUX8, IDES
127=1	COMMON /CINOUI/ RSMS, RPMS, RSSS, RPSS, RES
128=1	COMMON /CINOUT/ PIVV,SIVV
	COMMON /CALC/ APBCAN, ASBCAN, DHMSP, DHMSR, DTRNR, PAMTPP
)= <u>i</u>	COMMON /CALC/ FDR, WOCNST
.31=1	COMMON /CALC/ PEMTPR, SEMTPR, SAMTPR, ENCTEM, PHOTEM, SHOTEM
132=1	COMMON /CALC/ DPMSF, DSMSP, DDHMSF, PNIIG, ADX9, AUXIO
133=1	COMMON /CALC/ DHWSP, DHWSR, DPWSP, DSWSP, INTCPT
- 134=1	COMMON /CALC/ AFPS, ASPS, AENSP, PMD1S, PMDFP
135=1	COMMON /CALC/ PMTRQ, DPMP, REPPT, PTREFF, REPST
136=1	COMMON 7CALC7 APMSP, ASMSP, SMUIS, SMUFF
137=1	COMMON /CALC/ SMTRQ, DSMP, STREFF, REPT
133=1	COMMON /CALC/ DPFRT, PDIFP, DPFWJ, DSFRT, SDIFP, DPSWJ
137=1	COMMON /CALC/ PPDIS, PPDFP, APSSP, ASSSP
146 <b>-1</b>	COMMON /CALC/ PPTRQ, DPPP, REPPP, PPMEFF, REPSP
141=1	COMMON /CALC/ SPDIS, SPDFP, MAXMSP, TREP, DES
142=1	COMMON /CALC/ SPTRQ, DSPP, SPMEFF, REPP, ALPMSP, ALSMSP
143=1	COMMON /CALC/ ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TORQUE
144=1	COMMON /CALC/ KI,K2,K3,K4,K5,K6,K7,K8,K9,K10
145=1	COMMON /CALC/ DHMSPB, PAMPR, SAMPR, PFMPR, SFMPR
146=1	COMMON /MOUT/ MI:M2:M3:M4:M5:M6:M7:M8:M9:M10
147 <del>=1</del>	COMMON /MOUT/ MII:MIZ:MIZ:MIZ:MIZ:MIZ:MIZ:MIZ:MIZ:MIZ:
148=1	COMMON 7MOUT/ M21.M22.M23.M24.M25.M25.M27.M28.M29.M30
- 1 <del>49-1</del>	COMMON 7MOUT7 M31,M32,M33,M34,M35,M36,M37,M38,M39,M40
150=1	COMMON /MOUT/ M41,M42,M43,M44,M45,M46,M4/,M48,M49,M50
- +51	CALL INIT
- 152	CALL START (IAPBON)
<del>- 153 - 10 -</del>	CONTINUE
	- DO 20 I=1,8
:	D130UT(1)=0
<u> </u>	CONTINUE
-157	<u>00 30 1=0,13</u>
156	MASK(I+1)=2+*I
	A.3

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159 30 <del>'10</del>	CONTINUE
1	M1=700.1
<del></del>	INITIALIZATION
<del></del>	<u> </u>
<del></del>	INTIAL=: TRUE.
<del>  63</del>	BIGOUT(3)=HYBP3S
<del></del>	CALL ERROUT
145	CALL SYNC1
166	CALL SYNC2
<del>(67 40</del>	
<del>  60</del>	CALL SYNCI
<del>  69</del>	ENGNON-SDITS(DIGIN(UCARDS), WIDTHS, BEGINS)
<del></del>	LPGPSF=TBIT(ENGNON, BIT5)
<del>.71</del>	LSCPSF=TBIT(ENGNON+BIT4)
<del>172</del>	DIGOUT (7)=ENOMOS
1 <del>73</del>	AENSP-FLOAT(600*IAENSP)/134.0
<del>  74</del>	IF (AENSP.LT. 400.0) THEN
<del>.75</del>	CALL SYNC2
<del>. 76</del>	6078 40
t <del>77</del>	ENDIF
<del>  70</del>   <del>-79-</del>	POTBOS-LOW
- · ·	FRMOOP-LAND
130	BMCOP-TRNSTN
1 <del>81</del>	D100UT(3)=HYNEPS D100UT(7)=SUSMS0
. <del>6.3</del>	
*.5	DIGOUT(1)=SLOWER ITIMER=0
. <del> 50</del>	<del></del>
186	IF(ITIMER.NE. SOO) THEN
197	ITIMER-ITIMER+1
188	IF (TBELAY: NE: 0) THEN
189	TIMER-TIMER+1
<del>190</del>	IF(TIMER. 02. TDELAY) CALL CHOMP
<del>191</del>	0073 60
192	ENDIF
ĕ-	ARE WE PRESENTLY INVOLVED IN A MODE CHANGE ?
	THE THE THEORY IS STREET AND THE STREET
193	IF(.NOT.MOOPCC) THEN
194	CALL CHOMP
195	Gira do
196	ENDIF
<del>e</del>	
	13 A MODE CHANGE DESIRED ?
<del></del>	
197	IP (PRMOSP. NE. BHOOF) THEN
198	PDMOGF=DMOGF
199	MOOPCC+.FALSE.
<del>200</del>	- Cf LL CHOMP
201	ENDIF
<del></del>	
~^ <del>2 60</del>	CONTINUE
8	- CALL SYNC2
<u> </u>	<del>- 6 ло 50 </del>
<del>205</del>	
<del>206</del>	INTIAL=: FALSE.

	•	
207		DIGOUT(7)=NSUSMG
:508		TIMER≅0
	Ç.	
	<u> </u>	
	<u> </u>	SYNCHRONIZE WITH HARDWARE BEFORE START OF MAJOR TIMING LOOP
	C	
209	100	CONTINUE
210-		CALL SYNCI
	C	
211		CALL SEGMT
212		CALL SENGER
213	<del></del>	CALL SEVOS
214-		CALL SESEA
215		CALL FREQIN
216		CALL ANLOIN
	CCCC	CALL FREQIN
	<del>C</del>	
	<del>-c</del>	ALLOW FOR PARK AND NUETRAL TRANMISSON SETTINGS
	<del>c</del>	
217		7 IF(DTRST.EQ.NTRAL) THEN
218-		DLCVV=0
219		DHCVV=0
220		ENDIF
	<del>-c</del>	
221		IT ((PRMOOP.NE.LAND).AND.(DTRST.NE.DRIVE)) DTDGS=LOW
<del>222-</del>		IF((FRMOOP.EQ.LAND).AND.(PDMOOP.EQ.TRNSTN)) DTDGS=LOW
<del>223 -</del>		IF ( (DTRST.NE.NTRAL). AND. (DHCVV.EQ. 0). AND.
		+(DLCVV.EQ.O)) NCLTCH=.TRUE.
4		IF((PRMOOP.EQ.SEA).OR.(PDMOOP.EQ.SEA)) NCLTCH=.FALSE.
	<del></del>	21 TO TOO LEGISLATION TO BROOF LEGISLATT NOCHOLITINGS.
	<del>-</del> -	SHOULD WE CALL SHIFT
	<del></del>	GROCE WE GREE SHIP!
225		IF((PRMOOP.EQ.LAND).OR.(NCLTCH)) THEN
<del>226</del>		IF(SFTINP) THEN
227—		CALL SHIFT
<del>228</del>	·	60TO 300
<del>227</del>		ENDIF
230 		2F((DTDGS.NE.PTDGS).OR.(NCLTCH)) THEN
230 <del>231 —</del>		SPTINGS. NE. PIDOS J. OR. (NOC. 1 CH ) THEN
231 2 <del>32 -</del>		PDTDGS=DTDGS
233		
		CALL SHIFT
234		IF (SFTINF) 00TO 300
235		E. IDIF
236		ENDIF
	L.	
	<u>U</u>	DO WE HAVE AN ACTIVE TIMER DELAY
	C	
<del>237 -</del>		IF(TDELAY.NE.O) THEN
238 		TIMER=TIMER+1
<del>239</del>		IF(TIMER. GE. TDELAY) CALL CHOMP
<del>240</del>		90T0 200
241		ENDIF
	<del>-e</del>	
	<del>-c</del>	ARE WE PRESENTLY INVO! VED IN A MODE CHANGE ?
	<del>-c</del>	
. <u>.</u>	<del>-c</del>	IF(.NOT.MOUPCC) THEN
	· · ·	TF(.NOT.MOOPCC) THEN CALL C.IOMF
	e	

245		ENDIF
( –	<u> </u>	IS A MODE CHANGE DESTRED ?
<del>-246</del>		IF (PRMODE, NE. DMOGE) THEN
<del>-247</del>		PBI100P-IME. DITOUP / THEN
248-		MOOPEC FALSE.
<del>-249</del>	·	CALL CHOMP
<del>-250</del> -		-ENDIT
	<del></del>	
<del>251</del>	<del>-200</del>	CONTINUE
		WWINT STORE CO.
	<del>-e</del>	DIB CHOMP CALL SHIFT ?
252	-6	IF(SFTINP) GOTO 900
259		IF((DTRST.EQ.DRIVE), OR. (DTRST.EQ.REVRSE)) CALL DEMOS
	<u> </u>	IN DRIVE OR REVERSE CALL MOTREP
-254		-IF((BTRST.EQ.BRIVE).OR.(BTRST.EQ.REVRSE)) CALL MOTREP
255	-6	CALL ECAN
	- <del>C</del>	IN DRIVE OR REVERSE CALL ANTSTL
7 *	3	IF((DTRST.EG.DRIVE).OR.(DTRST.EQ.REVRSE)) CALL ANTSTL
<u>2:57</u>	<del>- 300</del>	CONTINUE
<del>- 258 -</del>	<u></u>	CALL PWMOUT
<del>-259-</del>		CALL ERROUT
		CALL MLTOFE
-260-		CALL SYNC2
		ONE OTHER
	<del></del>	TEST TO SEE IF ENGINE IS RUNNING
	1	1531 TO SEE TE FROTINE TO MONITINO
<del>-261</del>		ENGNON-SBITS(DIGIN(JCARDS), WIDTHS, BEGINS)
262	·	LPCPSF=TBIT(EMONON, BITS)
- <del>263 -</del>	·	LSCFSF=TBIT(ENGNON:BIT6)
<del>264 -</del>		IF (AENSP.LT. 400.0) THEN
265 265		DIGOUT(8)=POWER
-265 		D1000 ( 67-F0WE. (
-267 -267		DI 400 1=4,7
268 268	400	CONTINUE
267	700	CONTINOE
270		1DES=0
$\frac{270}{271}$		PFTVV=0
<del>- 272</del> -		
~		SATVV=()
<del>-273</del> -		
<del>-273 -</del> - <del>274 -</del>		
273 274 275		
<del>-273 -</del> - <del>274 -</del>	` .	PATVV=0
273 274 275 ( *		PATVV=0
273 274 275 ( *		PATVV=0
273 274 275 ( *	500	PATVV=0

281	I=0	
7 3-	GOTO 100	
	600 CONTINUE	
285	END	
	(gar) 1 day	
<del></del>		
<b>—</b> /		
	· · · · · · · · · · · · · · · · · · ·	
<del></del>		
	,	
		4
7 -		
		- A.7
		The state of the s

00:	1A	FA	CLI	
	:-	-2E8E161600	MOV	55, C3: 663TACK\$FRAME
-(	<b>a</b> —	-B61000	MO'V -	SP- @STACK#OFFSET
- <b>-</b> }	23-	ODEC	<del>- MGV</del>	
-00:	25-	-2E0E1E1000	<del>- M3V</del>	- BS+CS: @@DATA\$FRAME
<del>-00</del> ;	<del>2</del> A	-53	PUSH	
00:	<del>28-</del> -	-53	-PUSH-	- <del></del>
-00:	<del>20-</del>	<del>-940000000</del>	CALL -	INITEP
—ე <b>ე</b> :	31-	<del>-90000000</del>	-CALL-	<del>- TQ_001</del>
<del>00</del> :	<del>26.</del>	<del>-FB</del>	<del>STI</del>	
		<del></del>		T STATEMENT # 151
00;	37-	<del>-9A0000000</del>	- CALL	- INIT
<del>00</del> :	<del>90</del>	-091E0000	LEA	BX+TAPSCN
<del>-00</del>	<del>49-</del>	-2E8E069000	MOV	ES+CS+@CONST
	45	<del>06</del>	-PUSH	
-00	46	53	<del>- PUSH</del>	<del>- 5x ; - 2</del>
00-	47-	<del>- 7A0000000</del>	CALL	START
		<del>?10</del>		
- 00	<del>40-</del>	2E8E040200	-MOV	ES-CSI CONST+2H
<del>00</del> 6		<del>-260706600<b>20100</b>-</del>	MOV	- E3*13·1H
<del>00</del> !	<del>50-</del>	<del>-24070442020000</del>	MOV -	E9+1+2H+OH
		<del></del>	<del>0.</del>	
<del>÷;</del>	517	<del>-2E3E060200</del>	MOV	ES+CS: @CONST+2H
<del>00</del> ,	<del>54 -</del>	<del>-2688066002</del> -	MOV -	AXYES:I
-00	<del>۔ ج</del> ی	<del>-260B166202</del>	MOV	BX+ES+I+2H
7	'E-	BB0800	MOV	BXs 3H
-{	ļ <sub>4</sub>	<del>-890000</del>	MOV-	CXTOH
<del></del>	74-	<del>-50</del>	<del>-FUSH</del>	AX
- 00	75	<del>-52</del>	PUSH	DX ; 2
00	<del>76-</del>	<del>980000000</del>	-CALL	-T&_150
	<del>70</del> -	-50	<del>- POP</del>	-AX
-00.	<del>7ë -</del>	<del>5A</del>	<del>-POP</del>	- DX
-00	<del>70 -</del>	<del>7E03</del>	<del></del> -	** <del>5  </del>
-00	7=	<del>- E92B00</del>	<del></del>	<b>- 22</b> 000001
00	<del>02 -</del>	D1E2	<del>-SAL</del>	DX 1
<del>00</del> 1		-D1E2	-SAL	-BXv1
061	96	-078A	XCHG-	<del>- BX+BX</del>
<del>- 00</del> 1	<del>03</del> -	<del>- 2E0E040000</del>	MOV-	ES, CS: &CONST
<del>- ÚŬ</del>		<del>-260747300000</del>	MOV-	ESTRIBOUTEBX-4HITOH
	<del>73-</del> -	<del>-2667473E0000</del>	MÖV	ES: DIGOUT(BX-2H), OH
		720:		
				STATEMENT # 156
		2E8E080200	MOV	ES, CS: @CONST+2H
-00		26810660020100	שטח	ES:1,1H
<u>-00</u>		26811662020000	ADC	ES: 1+2H, OH
<del>"Ö</del> Ö	AC	ビラおいドド		<u>@@000000</u>
		<u>@@00000</u>	1:	
	~	OFAFA! AGAA	MOU	STATEMENT # 157
— <del>-00</del> ;		-2505040200	MOV	E6+C6+@CSNST+2H
<del>- 00)</del>		<del>-26070660020000-</del>		ESTIVOH
00	L/L/	<del>~26070662020</del> 0 <del>00~</del>		EST I + 2H TOH
7		<del></del>		
٦,	2	2E8E060200	- <del>MOV</del>	ES: CS: QCONST+2H
1 <del>177)</del>		2688066002	MOV	AKT COLL
- <del>(,}(,\</del>	<del>00-</del>	<del>260B166202</del>	<del>-MOV</del>	BX+ES:I+2H
			····	**************************************
			·	A,8
				**************************************
		the state of the s		

oon1	BBOFOO	MOV	BX, OFH
7 7	B90000	MOV	CX,OH
<b>\</b>	50	PUSH	AX ; i
OODS.	52	PUSH	DX ; 2 .
0003	9A00000000	CALL	TQ_150
OODE	<b>36</b> ,	POP	AX ; 2
OODF	SA	-eOs	nx : r
OOEO	7E03	JLE	¥*∆H
OOE2	E93A00	-JMP	@@000003
COES	87DA	XCHG	BX,DX
OUE7	8708	XCHG	CXTAX
OUES	B80200	MOV	AX.2H
OUEC	BA0000	MOV	DX,OH
OUE	53	PUSH	BX T 1
<u> 00000</u>	-51	FUSH	CX ; 2
00F1	<del>2000000000000000000000000000000000000</del>	CALL	TG_140
OOFS	59	POP	CX ; 2
OOF7	38	POP	BX ; i
COFS	DiE3	SAL	BX,1
OOFA	DIE3	SAL	9X,1
OOFC	2E8E060200	MOV	ES, CS: @UONST+2H
0101	26894704	MOV	ESTMASK(BX), AX
0105	26895706	MOV	ESTMASK(SX+ZH), DX
	?30:		
			; STATEMENT # 159
0109	2E3E060200	1400	ES, CS: @CUNST+2H
3010	26810660020100	ADD	ES-1,1H
7 5	26811662020000	ADC	ES: I+2H, 0H
\	EPASFF	JMP	@@000002
	<u>@@0000</u>	13 :	
			; STATEMENT # 160
Diff	2E3E060200	MÖV	ES, CS: @CONST+2H
0124	26070660020000	MÖV	£3:1,0H
0123	26070662020000	MUV	ES: 1+2H, OH
0132	982ED9060A00	FLD	CS:@CONST+OAH; /
0133	2E3E060600	MOV	ES, CS: ECONST+6H
0130	9B26D91E0000	FSTP	ES:M1 ; 7
0143	<b>98</b> 2 <b>2</b> 88 <b>2</b> 06 <b>0</b> 800	WAIT	•
0144	2 P. A.10 / OST DET ITT		
0149		MOV	ES, CS: &CCNST+8H
	26C706A0000100	MOV	ES: INTIAL, IH
0150	260706A0000100 260706A2000000	MOV	ES: INTTAL, 1H ES: INTTAL+2H, OH
0150 0157	26C706A0000100 26C706A2000000 2E3E060000	MOV MOV MOV	ES:INTIAL, IH ES:INTIAL+2H, OH ES, CS: @CONST
0150 0157 0150	260706A0000100 260706A2000000 263E060000 2638069800	MOV MOV MOV	ES:INTIAL, IH ES:INTIAL+2H, OH ES, CS: @CONST AX, ES: HYBPSS
0150 0157 0150 0161	260706A0000100 260706A2000000 2636060000 2636069800 2638169A00	MOV MOV MOV MOV	ES:INTIAL, IH ES:INTIAL+2H, OH ES, CS: @CONST AX, ES: HYBPSS DX, ES: HYBPSS+2H
0150 0157 0150 0161 0166	260706A0000100 260706A2000000 2E3E060000 2638069800 2638169A00 2639064800	MOV MOV MOV MOV MOV	ES:INTIAL;IH ES:INTIAL+2H;OH ES;CS:@CONST AX;ES:HYBPSS DX;ES:HYBPSS+2H ES:DIGOUT+SH;AX
0150 0157 0150 0161 0166 0188	260706A0000100 260706A20000000 263E060000 263E069300 2638169A00 2639164A00	MOV MOV MOV MOV MOV MOV	ES:INTIAL;IH ES:INTIAL+2H;OH ES:CS:@CONST AX:ES:HYBPSS DX:ES:HYBPSS+2H ES:DIGOUT+SH;AX ES:DIGOUT+OAH;DX
0150 0157 0150 0161 0166	260706A0000100 260706A2000000 2E3E060000 2638069800 2638169A00 2639064800	MOV MOV MOV MOV MOV	ES:INTIAL;IH ES:INTIAL+2H,OH ES:CS:@CONST AX:ES:HYBPSS DX:ES:HYBPSS+2H ES:DIGOUT+8H,AX ES:DIGOUT+OAH,DX ERROUT
0150 0157 0150 0161 0166 0168 0170	260706A0000100 260706A2000000 2636060000 2636069800 2638169A00 2639164A00 9A00000000	MOV MOV MOV MOV MOV MOV CALL	ES:INTIAL;IH ES:INTIAL+2H,OH ES:CS:@CONST AX:ES:HYBPSS DX:ES:HYBPSS+2H ES:DIGOUT+SH:AX ES:DIGOUT+OAH:DX ERROUT ; STATEMENT # 165
0150 0157 0150 0161 0166 0188	260706A0000100 260706A20000000 263E060000 263E069300 2638169A00 2639164A00	MOV MOV MOV MOV MOV MOV	ES:INTIAL;IH ES:INTIAL+2H,OH ES:CS:@CONST AX:ES:HYBPSS DX:ES:HYBPSS+2H ES:DIGOUT+SH:AX ES:DIGOUT+OAH:DX ERROUT ; STATEMENT # 165 SYNCI
0150 0157 0150 0161 0164 0188 0170	260706A0000100 260706A20000000 2636069800 2636069800 2638169A00 2639164A00 9A000000000	MOV MOV MOV MOV MOV MOV CALL	ES:INTIAL;IH ES:INTIAL+2H,OH ES:CS:@CONST AX:ES:HYBPSS DX:ES:HYBPSS+2H ES:DIGOUT+8H,AX ES:DIGOUT+0AH,DX ERROUT ; STATEMENT # 165 SYNC1 ; STATEMENT # 166
0150 0157 0150 0161 0164 0188 0170	260708A0000100 260708A20000000 2636080000 2638167800 2638167800 2639164800 9A000000000	MOV MOV MOV MOV MOV MOV CALL	ES:INTIAL;IH ES:INTIAL+2H,OH ES:CS:@CONST AX:ES:HYBPSS DX:ES:HYBPSS+2H ES:DIGOUT+SH:AX ES:DIGOUT+OAH:DX ERROUT ; STATEMENT # 165 SYNCI
0150 0157 0150 0161 0164 0168 0170	260706A0000100 260706A20000000 2636069800 2636069800 2638169A00 2639164A00 9A000000000	MOV MOV MOV MOV MOV MOV CALL	ES:INTIAL;IH ES:INTIAL+2H,OH ES:CS:@CONST AX:ES:HYBPSS DX:ES:HYBPSS+2H ES:DIGOUT+SH,AX ES:DIGOUT+OAH,DX ERROUT ; STATEMENT # 165 SYNC1 ; STATEMENT # 166
0150 0157 0150 0161 0164 0188 0170	260706A0000100 260706A20000000 2636069800 2638169A00 2638169A00 2639164A00 9A00000000 9A00000000	MOV MOV MOV MOV MOV CALL CALL	ES:INTIAL;IH ES:INTIAL+2H,OH ES:CS:@CONST AX:ES:HYBPSS DX:ES:HYBPSS+2H ES:DIGOUT+SH,AX ES:DIGOUT+OAH,DX ERROUT ; STATEMENT # 165 SYNC1 ; STATEMENT # 166
0150 0157 0150 0161 0164 0188 0170	260708A0000100 260708A20000000 2636080000 2638167800 2638167800 2639164800 9A000000000	MOV MOV MOV MOV MOV MOV CALL	ES:INTIAL;IH ES:INTIAL+2H,OH ES:CS:@CONST AX:ES:HYBPSS DX:ES:HYBPSS+2H ES:DIGOUT+SH,AX ES:DIGOUT+OAH,DX ERROUT ; STATEMENT # 165 SYNC1 ; STATEMENT # 166
0150 0157 0150 0161 0164 0188 0170	260706A0000100 260706A20000000 2636069800 2638169A00 2638169A00 2639164A00 9A00000000 9A00000000	MOV MOV MOV MOV MOV CALL CALL	ES:INTIAL; IH ES:INTIAL+2H, OH ES:CS:@CONST AX:ES:HYBPSS DX:ES:HYBPSS+2H ES:DIGOUT+SH, AX ES:DIGOUT+OAH, DX ERROUT ; STATEMENT # 165 SYNC1 ; STATEMENT # 166
0150 0157 0150 0161 0166 0168 0170 0173 017A	260706A0000100 260706A20000000 2636069300 2636169A00 2636169A00 2639164A00 9A00000000 9A00000000 9A00000000 9A00000000	MOV MOV MOV CALL CALL	ES:INTIAL; IH ES:INTIAL+2H, OH ES:CS:@CONST AX:ES:HYBPSS DX:ES:HYBPSS+2H ES:DIGOUT+SH:AX ES:DIGOUT+OAH:DX ERROUT ; STATEMENT # 165 SYNC1 ; STATEMENT # 166 SYNC2 ; STATEMENT # 169 ES:CS:@CONST+2H
0150 0157 0150 0161 0166 0168 0170 0173	260706A0000100 260706A20000000 2636069300 2636169A00 2636169A00 2639164A00 9A00000000 9A00000000 9A00000000	MOV MOV MOV MOV MOV CALL CALL	ES:INTIAL; IH ES:INTIAL+2H, OH ES:CS:@CONST AX:ES:HYBPSS DX:ES:HYBPSS+2H ES:DIGOUT+SH:AX ES:DIGOUT+OAH:DX ERROUT ; STATEMENT # 165 SYNC1 ; STATEMENT # 166 SYNC1 ; STATEMENT # 169
0150 0157 0150 0161 0166 0168 0170 0173 017A	260706A0000100 260706A20000000 2636069300 2636169A00 2636169A00 2639164A00 9A00000000 9A00000000 9A00000000 9A00000000	MOV MOV MOV CALL CALL	ES:INTIAL; IH ES:INTIAL+2H, OH ES:CS:@CONST AX:ES:HYBPSS DX:ES:HYBPSS+2H ES:DIGOUT+SH, AX ES:DIGOUT+OAH, DX ERROUT ; STATEMENT # 165 SYNC1 ; STATEMENT # 168 SYNC1 ; STATEMENT # 169 ES:CS:@CONST+2H AX:ES:JCARDS
0150 0157 0150 0161 0166 0166 0170 0173 0174	260706A0000100 260706A20000000 2636069300 2636169A00 2636169A00 2639164A00 9A00000000 9A00000000 9A00000000 9A00000000	MOV MOV MOV CALL CALL	ES:INTIAL; IH ES:INTIAL+2H, OH ES:CS:@CONST AX:ES:HYBPSS DX:ES:HYBPSS+2H ES:DIGOUT+SH, AX ES:DIGOUT+OAH, DX ERROUT ; STATEMENT # 165 SYNC1 ; STATEMENT # 168 SYNC1 ; STATEMENT # 169 ES:CS:@CONST+2H

018E		MOV	DX.ES: JCARDS+2H
73		SAL	AX.1
5	- 01E0	SAL	AXVI
~ <del></del>	<del>3753</del>	XCHI3	BX. AX
0199	<del></del>	LEA	BX,DIGINCEX-4H)
<del>-0150</del>	<del>2E0E040000</del>	MOV	ESVEST ECONST
- <del>01A1</del>	<del></del>	<del>PUSH</del>	<del></del>
-0145	<del></del>	PUSH	<del>- 8X - 1-2</del>
<del>-010</del> &	8D1E5001	— <u>LEA</u> —	- CHTGIW.X8
<del>-91A7</del>	<del>- 2ESE060200</del>	<del></del>	EG+CG+CGONST+2H
<del>-01AC</del>	-06	- PUSH-	<del></del>
OIAD	<del>-53</del>	<del>РИСН</del>	<del></del>
-01AE		- LEA-	- BX+BEGING
01E2	<del></del>	PUSH-	<del></del>
<del>-0183</del>	<del>-53</del>	PUSH-	BX
<del>Ú1D4</del>	<del>- 7400000000</del>	-CALL	- SBITS
<del>-01D9</del>	<del>7600000000</del>	CALL	- ARERINT
O1 BE	- 2E8E060000-	MOV	E9+C9+Q0NST
0100	268906A000	MOV	ES: ENONON, AX
0100		— MGV	ES: ENGNON+2H, DX
		1104	S-ENGINORATED DA
-01CB	ODIEACCO	LEA-	
-0105 -0101	2E8E866888		BX - ENGINON
-01B6		HOV	ES. CS: @CONST
	· · · · · · · · · · · · · · · · · · ·	PUSH	
<del>-01107</del>		PUSH	- <del>DX                                   </del>
<del>-0100</del>		LEA	BX-BIT5
-01EC	<del>- 2E0E060200</del>	MOV	
7		PUSH	<del>- E3 - 1 3 </del>
( <del>12</del>	<del>- 53</del>	PUSH -	<del></del>
√. <del>Ε3</del>	<del>~~ 9A00000000</del> ~~~	CALL	TBIT
O1E3	<del>2686060800</del>	MOV-	ES, CS: @CONST+SH
-01ED	<del>- 2689062800</del>	MOV -	ES:LPCP3P, AX
<del>-01F2</del>	<del>- 2689162A00</del>	<del>- M≎V -</del>	E3:LPCF3F+2H, DX
· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	; STATEMENT # 171
OIFT	SD1EA000	LEA	5X, ENGNON
<del>U1FD</del>	<del>- 250506000</del>	MOV	ES, CS: &CONST
0200	<del></del>	PUSH	<del>- 23</del>
<del>-0201</del>	<del>53</del>	PUSH	- <del>5X                                   </del>
0202		LEA	- BX, BITG
0206	2E8E060200	MOV	ES, C3: CONST+2H
0208		PUSH	ES (3)
-0200	~ ~	PUSH	
	9 <del>800000000</del>	CALL	
			TRIT
0212	<del>- 2535040300</del>	MOV	ES, CS: @CONST+3H
0217		MOV	ES:LSCPSF, AX
0210	2639162E00	₩ÖV	ES:LSCPSF+2H,DX
			F STRIEMENT # 172
0221	2 <b>5550</b> 60000	MOV	ES, CS: &CONST
0226		MOV	AX, ES: ENGMSG
<del>-032D</del>		—— <del>Mű∀</del> ——	DX+CG+ENGMSG+2H
-0250			ES+DIGOUT+19HvAX
<del>-0235</del>		MOV -	ESI DI GOUT + 1 AH + BX
-025A	268B0EC400	MOV	CXTESTIAENSP .
<sub>7</sub> ^^∂F	<del>- 26691EG400</del>		- DX-ES+TAENSP+2H
	<del>-0701</del>	- XIZIHG	- AX ; CX
4		- XCHG	- BX · BX
4. <del>46</del> ت ب	<del>- 9799</del>	- Violette	
	9799 		- BX-258H

0268 026E 0275 0278 0270 0281 0282 0283 0283 0283 0283 0283 0290 0297 0297 0298 0298 0298 0298 0298 0298 0298 0298	### E90800   \$\frac{\text{FFE}}{\text{PE}}	CALL.	@@OCOOO4 SYNC2 ; STATEMENT # 176 ?40 ; STATEMENT # 178 ES;CS:@CONS! AX,ES:LOW DX;ES:LOW+2H ES:PDTDGS.AX ES:PDTDGS.AX ES:PDTDGS.AX ES:PTHOCP;CX ES:PRHOCP;CX ES:PRHOCP;CX ES:PRMOOP;ST ES:DMOOP;ST ES:DMOOP;ST ES:DMOOP;ST ES:DMOOP;ST ES:DMOOP;ST ES:DMOOP;ST ES:DMOOP;ST ES:DMOOP;AH,DT AX;ES:SHYNBPS DX;ES:HYNBPS*2H ES:DIGOUT+8H;AX ES:DIGOUT+8H;AX ES:DIGOUT+1AH;DX AX;ES:SLOWER DX;ES:SLOWER DX;ES:SLO
026E 0275 0278 0278 0233 0233 0233 0233 0233 0235 0235 0236 027 0262 0263 0263 0263 0263 0264 0264 0264 0265 0264 0265 0266 027 0266 0267 0266 0267 0266 0267 0277 0266 0267 0277 027	### E90800   \$9000000000000000000000000000000000000	MOV	### STATEMENT # 176  SYNC2  SYNC2  STATEMENT # 176  AU  STATEMENT # 178  ES,CS:@CONS!  AX,ES:LOW  DX,ES:LOW+2H  ES:PDTDGS.AX  ES:PDTDGS.AX  ES:PDTDGS.AX  ES:PTHOCP.CX  ES:PRHOCP.CX  ES:PRHOCP.CX  ES:PRHOCP.CX  ES:PRHOCP.SI  ES:DMOCP.SI  ES:DMOCP.SMOCP.SI  ES:DMOCP.SMOCP.SI  ES:DMOCP.SMOCP.SI  ES:DMOCP.SMOCP.SMOCP.SMOCP.SMOCP.SMOCP.SMOCP.SMOC
026E 0275 0278 0278 0276 0283 0283 0283 0288 0288 0288 0290 0276 0288 0288 0288 0288 0288 0288 0288 028	### E90800    \$9000000000000000000000000000000000000	MOV	**STATEMENT # 176 **TATEMENT # 176 **TATEMENT # 178  **STATEMENT # 178  **ES,CS:*@CONS( AX,ES:LOW
026E 0275 0278 0278 0276 0283 0283 0283 0288 0288 0288 0290 0276 0288 0288 0288 0288 0288 0288 0288 028	### E90800    \$9000000000000000000000000000000000000	MOV	**SYNC2**  **STATEMENT ** 176  **740  ****  *****  *****  *****  *****  ****
026E 0275 0278 0276 0281 0282 0283 0285 0288 0285 0288 0290 0276 0276 0288 0288 0288 0288 0288 0288 0288 028	### E90800    \$9000000000000000000000000000000000000	MOV	**STATEMENT ** 176  **TATEMENT ** 176  **TATEMENT ** 178  **ES, CS; @CONS;  AX, ES; LOW  DX, ES; LOW  DX, ES; LOW  DX, ES; LOW  DX, ES; LAND  ES; PDTDGS; AX  ES; PDTDGS; AX  ES; PRINOD; CX  ES; PRINOD; CX  ES; PRINOD; CX  ES; PRINOD; F1  ES; DMOOP; S1  ES; DMOOP; S1  ES; DMOOP; S1  ES; DIGOUT; SH, AX  ES; DIGOUT; SH, AX  ES; DIGOUT; AH, DX  AX, ES; SL'SMSG  DX, ES; SL'SMSG  DX, ES; SL'SMSG  DX, ES; SL'SMSG  ES; DIGOUT; AH, DX  AX, ES; SLOWER; CH  ES; DIGOUT; AX  ES; DIGOUT;
026E 0275 0278 0276 0276 0281 0283 0285 0288 0285 0296 0296 0297 0296 0297 0288 0288 0288 0288 0288 0288 0288 028	E90800 9A00000000 E9EFFE  @@0000  2838060000 2638068800 2638168A00 2638186A00 2638186A00 2638186A00 2638186A00 2638186A00 2638186600 263836600 263836600 263836600 263836600 263836600 263836600 263836600 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800	MOV	**STATEMENT ** 176  **TATEMENT ** 176  **TATEMENT ** 178  **ES, CS; @CONS;  AX, ES; LOW  DX, ES; LOW  DX, ES; LOW  DX, ES; LOW  DX, ES; LAND  ES; PDTDGS; AX  ES; PDTDGS; AX  ES; PRINOD; CX  ES; PRINOD; CX  ES; PRINOD; CX  ES; PRINOD; F1  ES; DMOOP; S1  ES; DMOOP; S1  ES; DMOOP; S1  ES; DIGOUT; SH, AX  ES; DIGOUT; SH, AX  ES; DIGOUT; AH, DX  AX, ES; SL'SMSG  DX, ES; SL'SMSG  DX, ES; SL'SMSG  DX, ES; SL'SMSG  ES; DIGOUT; AH, DX  AX, ES; SLOWER; CH  ES; DIGOUT; AX  ES; DIGOUT;
026E 0275 0278 0276 0276 0281 0283 0285 0288 0285 0296 0296 0297 0296 0297 0288 0288 0288 0288 0288 0288 0288 028	E90800 9A00000000 E9EFFE  @@0000  2838060000 2638068800 2638168A00 2638186A00 2638186A00 2638186A00 2638186A00 2638186A00 2638186600 263836600 263836600 263836600 263836600 263836600 263836600 263836600 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800 263816800	MOV	### STATEMENT # 176    STATEMENT # 176   STATEMENT # 178   STATEME
026E 026F 0275 0278 0276 0283 0283 0285 0288 0285 0296 0296 0297 0296 0297 0298 0298 0298 0298 0298 0298 0298 0298	E90800 9A0000000  E9EFFE  @@0000  2882080000 268200 268208200 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182801 2682082001 2682182801 2682082001 2682182801 2682082000 2682182800	MOV	### STATEMENT # 176    STATEMENT # 176   STATEMENT # 178   STATEME
026E 026F 0275 0278 0276 0283 0283 0288 0288 0288 0296 0296 0297 0296 0297 0298 0298 0298 0298 0298 0298 0298 0298	E90800 9A0000000  E9EFFE  @@0000  2882080000 268200 268208200 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182800 2682182801 2682082001 2682182801 2682082001 2682182801 2682082000 2682182800	MOV	### BYNC2    STATEMENT # 176   STATEMENT # 176   STATEMENT # 178   ES, CS: @CONS(   AX, ES: LOW     DX, ES: LOW     DX, ES: LOW     DX, ES: LOW     DX, ES: LAND     ES: PDTDOS+2M, DX     CX, ES: LAND     ES: PRINOTH, CX     ES: PRINOTH, CX     ES: PRINOTH, EX     ES: DMOOP, SI     ES: DMOOP, SI     ES: DMOOP+2H, DI     AX, ES: HYNBPS     DX, ES: HYNBPS     DX, ES: HYNBPS+2H     ES: DIGOUT+8H, AX     ES: DIGOUT+18H, AX     ES: DIGOUT+18H, AX     ES: DIGOUT+18H, DX     AX, ES: SLOWER     DX, ES: SLOWER     ES: DIGOUT+2H, DX     ES: DIGOUT+2H, DX
026E 026F 0275 0278 0276 0283 0283 0285 0288 0285 0296 0296 0297 0296 0297 0298 0298 0298 0298 0298 0298 0298 0298		MOV	### BYNC2    STATEMENT # 176   STATEMENT # 176   STATEMENT # 178   ES, CS: @CONS(   AX, ES: LOW     DX, ES: LOW     DX, ES: LOW     DX, ES: LOW     DX, ES: LAND     ES: PDTDOS+2M, DX     CX, ES: LAND     ES: PRINOTH, CX     ES: PRINOTH, CX     ES: PRINOTH, EX     ES: DMOOP, SI     ES: DMOOP, SI     ES: DMOOP+2H, DI     AX, ES: HYNBPS     DX, ES: HYNBPS     DX, ES: HYNBPS+2H     ES: DIGOUT+8H, AX     ES: DIGOUT+18H, AX     ES: DIGOUT+18H, AX     ES: DIGOUT+18H, DX     AX, ES: SLOWER     DX, ES: SLOWER     ES: DIGOUT+2H, DX     ES: DIGOUT+2H, DX
026E 026F 0275 0278 0276 0283 0283 0288 0288 0288 0296 0296 0297 0296 0297 0298 0298 0298 0298 0298 0298 0298 0298	263206000000000000000000000000000000000	MOV	### SYNC2    STATEMENT # 176   TAO
026E 026F 0275 0278 0270 0281 0282 0283 0285 0288 0286 0290 0296 0296 0296 0296 0296 0298 0288 0288 0288 0288 0288 0288 0288	E90800 9A00000000 E9EFFE  @@0000 268E068800 268E068800 268F168A00	MOV	### STATEMENT # 176  ***TATEMENT # 176  ***TATEMENT # 176  ***TATEMENT # 178  ***ES:CONS'  AX, ES:LOW  DX, ES:LOW+2H  ES:PDTDGS+2H, DX  CX, ES:LAND  BX, ES:LAND  BX, ES:LAND+2H  ES:PRHODF, CX  ES:PRMODF, CX  ES:PRMODF, ST  ES:DMOCP+2H, DT  AX, ES:HYNBPS  DX, ES:HYNBPS  DX, ES:HYNBPS+2H  ES:DIGOUT+8H, AX  ES:DIGOUT+18H, AX  ES:DIGOUT+18H, AX  ES:DIGOUT+16H, DX  AX, ES:SLOWER  DX, ES:SLOWER+2H
026E 026F 0275 0278 0270 0281 0282 0283 0285 0288 0285 0290 0290 0290 0290 0290 0290 0290 029	265000000000000000000000000000000000000	MOV	### STATEMENT # 176  ***********************************
026E 026F 0275 0278 0276 0281 0283 0283 0285 0288 0296 0296 0296 0296 0296 0296 0283 0283 0283 0283 0283 0283 0283 0283	265000000000000000000000000000000000000	MOV	### STATEMENT # 176  FAO  *********************************
026E 026F 0275 0278 0276 0281 0283 0285 0285 0285 0285 0296 0296 0296 0296 0296 0296 0296 0283 0283 0283 0283 0283 0283 0283 0283	265000000000000000000000000000000000000	MOV	### PROCESS OF THE PR
026E 026F 0275 0278 0276 0281 0283 0285 0285 0285 0285 0296 0296 0296 0296 0297 0296 0283 0283 0283 0283 0283 0283 0283 0283	265000000000000000000000000000000000000	MOV	### SYNC2  ; STATEMENT # 176  ?40  ; STATEMENT # 178  ES,CS:@CONS( AX,ES:LOW  DX,ES:LOW-2H  ES:PDTDGS.AX  ES:PDTDGS.AX  ES:PDTDGS.AX  ES:PDTDGS.AX  ES:PTHOOP,CX  ES:PRMOOP,CX  ES:PRMOOP,CX  ES:PRMOOP,ST  ES:DMOOP,ST  ES:DMOOP+2H,DT  AX,ES:HYNBPS  DX,ES:HYNBPS+2H  ES:DTGGUT+8H,AX  ES:DTGGUT+6AH,DX  AX,ES:SUSMSG-2H
026E 0275 0278 0278 0276 0281 0283 0283 0285 0285 0285 0296 0296 0296 0296 0296 0296 0296 0297 0288 0288 0288 0288 0288 0288 0288 028	E90800 9A00000000  E9EFFE  @@0000  268E060000 268E06800 268F16F200 268F16F200 268F16E600 268F16E600 268F36000 268F360001 268F360001 268F360001 268F360000 268F360000 268F360000	MOV	@@OCOOO4 SYNC2 ; STATEMENT # 176 ?40 ; STATEMENT # 178 ES,CS:@CONS; AX,ES:LOW DX,ES:LOW+2H ES:PDTDGS.AX ES:PDTDGS.AX ES:PDTDGS.AX ES:PCTDGS.AX ES:DCGGT.ABA ES:CCGT.ABA ES:CCG
026E 0275 0278 0278 0276 0281 0282 0283 0285 0285 0285 0285 0296 0296 0296 0296 0297 0288 0288 0288 0288 0288 0288 0288 028	E90800 9A00000000  E9EFFE  @@0000  268E060000 268E06800 268F16F200 268F16F200 268F16E600 268F16E600 268F36000 268F36000 268F360001 268F360001 268F360001 268F360001 268F360001 268F360001 268F360000 268F360000 268F360000	MOV	@@OCOOO4 SYNC2 ; STATEMENT # 176  ?40 ; STATEMENT # 178 ES.CS:@CONS; AX.ES:LOW DX.ES:LOW DX.ES:LOW DX.ES:LOW ES:PDTDGS.AX ES:PDTDGS.AX ES:PDTDGS.AX ES:PDTDGS.AX ES:PNTDGS.AX ES:DNCOP.CX ES:PNTDGS.AX ES:DNCOP.SI
026E 0275 0278 0278 0270 0281 0282 0283 0285 0285 0285 0285 0270 0276 0276 0276 0276 0286 0288 0288 0288 0288 0288 0288 028	263600000000000000000000000000000000000	MOV	@@0COCOC4 SYNC2 ; STATEMENT # 176  ?40 ; STATEMENT # 178 ES.CS:@CONS? AX.ES:LOW* DX.ES:LOW*ZH ES:PDTDGS.AX ES:PDTDGS.AX ES:PDTDGS.AX ES:PDTDGS.AX ES:PNTDGS.AX ES:PNTDGS.AX  CX.ES:LAND BX.ES:LAND+ZH ES:PRHOOF.CX ES:PRHOOF.CX ES:PRMOOF.CX ES:PRMOOF.ST ES:DMOOP.ST ES:DMOOP.ST ES:DMOOP*ZH.DT AX.ES:HYNBPS DX.ES:HYNBPS+ZH ES:DIGOUT*8H.AX
026E 0275 0278 0278 0270 0281 0282 0283 0285 0285 0285 0285 0285 0295 0276 0276 0276 0276 0286 0286 0286 0287 0286 0286	263600 263600000000000000000000000000000000000	MOV	@@0COCOC4 SYNC2 ; STATEMENT # 176 ?40 ; STATEMENT # 178 ES.CS:@CONS? AX.ES:LOW DX.ES:LOW+ZH ES:PDTDGS.AX ES:PDTDGS.AX ES:PDTDGS.AX ES:PDTDGS.AX ES:PMTDGS.AX EX:PMTDGS.AX EX:P
026E 0275 0278 0276 0276 0281 0282 0283 0285 0285 0285 0285 0285 0295 0296 0296 0296 0296 0296 0288 0288 0288 0288 0288 0288 0288 028	263600 263600000000000000000000000000000000000	MOV	@@0COCOC4 SYNC2 ; STATEMENT # 176 ?40 ; STATEMENT # 178 ES.CS:@CONS? AX.ES:LOW DX.ES:LOW+ZH ES:PDTDGS.AX ES:PDTDGS.AX ES:PDTDGS.AX ES:PDTDGS.AX ES:PNTDGS.AX ES:PNTDGS.AX  CX.ES:LAND BX.ES:LAND+ZH ES:PRHOOF.CX ES:PRMOOF.CX ES:PRMOOF.CX ES:PRMOOF.CX ES:PNSTN DI.ES:TRNSTN+ZH ES:DMOOP.SI ES:DMOOP.SI ES:DMOOP+ZH.DI AX.ES:HYNDPS
026E 026F 0275 0278 0270 0281 0282 0283 0283 0285 0285 0295 0276 0276 0276 0276 0276 0283 0283 0283 0283 0283 0283 0283 0283	265000000000000000000000000000000000000	MOV	### STATEMENT # 176  ?40  ; STATEMENT # 178  ES.CS:@CONS( AX.ES:LOW+ZH  ES:PDTDGS.AX  ES:PDTDGS.AX  ES:PDTDGS.PAH.DX  CX.ES:LAND  ###################################
026E 026F 0275 0278 0270 0281 0282 0283 0283 0285 0285 0296 0276 0276 0276 0276 0276 0276 0283 0283 0283 0283 0283 0283 0283 0283	265000000000000000000000000000000000000	MOV	### STATEMENT # 176  ?40  ; STATEMENT # 178  ES.CS:@CONS( AX.ES:LOW  DX.ES:LOW+2H  ES:PDTDGS.AX  ES:PDTDGS+2H, DX  CX.ES:LAND  ###################################
026E 026F 0275 0278 0270 0281 0282 0283 0285 0285 0286 0296 0276 0276 0276 0276 0276 0283 0283 0283 0283 0283	265000000000000000000000000000000000000	MOV	@@0COCOC4 SYNC2 ; STATEMENT # 176 ?40 ; STATEMENT # 178 ES.CS:@CONS( AX.ES:LOW+ZH EX:PDTDGS.AX ES:PDTDGS.AX ES:PDTDGS.AX ES:PDTDGS.AX ES:PAND. BX.ES:LAND. BX.ES:LAND. BX.ES:LAND. CX.ES:LAND. BX.ES:LAND. CX.ES:LAND. CX.ES:LAND. CX.ES:LAND. CX.ES:LAND. CX.ES:LAND. CX.ES:LAND. CX.ES:LAND. CX.ES:CAND. CX.ES:C
026E 026F 0275 0278 0270 0281 0282 0283 0288 0288 0286 0296 0276 0276 0276 0276 0276 0276 0276 027	263600 263600000000000000000000000000000000000	MOV	### STATEMENT # 176  ?40  ; STATEMENT # 178  ES, CS: @CONS (
026E 026F 0275 0278 0270 0281 0282 0283 0288 0288 0286 0296 0276 0276 0276 0276 0276 0276 0276 027	268000000000000000000000000000000000000	MOV	### STATEMENT # 176  ?40  ; STATEMENT # 178  ES,CS:@CONS? AX,ES:LOW  DX,ES:LOW+ZH  ES:PDTDGS.AX  ES:PDTDGS+ZH.DX  CX,ES:LAND  ###################################
026E 026F 0275 0278 027C 0281 0282 0283 0288 0285 0286 0296 0296 0296 0296 0296 0296 0296 029	263000000000000000000000000000000000000	MOV	### STATEMENT # 176  ?40  ; STATEMENT # 178  ES.CS:@CONS( AX.ES:LOW  DX.ES:LOW+2H  ES:PDTDGS.AX  ES:PDTDGS+2H,DX  CX.ES:LAND  ###################################
026E 026F 0275 027B 027C 0281 0283 0283 0288 0288 028B 0290 027A 027F 02A4 02A4 02A4 02A4	263000000000000000000000000000000000000	MOV MOV MOV MOV MOV MOV MOV MOV MOV	### STATEMENT # 176  740  ; STATEMENT # 178  ES, CS: @CONS (
026E 026F 0275 0278 027C 0281 0283 0283 0288 0285 0286 0296 0276 0276 0276 0276 0277	288206000000000000000000000000000000000	MOV MOV MOV MOV MOV MOV MOV	### STATEMENT # 176  740  ; STATEMENT # 178  ES, CS: @CONS; AX, ES: LOW  DX, ES: LOW+2H  ES: PDTDGS, AX  ES: PDTDGS+2H, DX  CX, ES: LAND
026E 026F 0275 0278 0270 0281 0283 0285 0288 0285 0286 0290 0276 0276 0276 0276	288206000000000000000000000000000000000	MOV MOV MOV MOV MOV MOV	### STATEMENT # 176  740  ; STATEMENT # 178  ES, CS: @CONS( AX, ES: LOW  DX, ES: LOW+2H  ES: PDTDGS, AX  ES: PDTDGS+2H, DX
026E 026F 0275 0278 0270 0281 0283 0285 0288 0285 0285 0295 0276 0276	288206000000000000000000000000000000000	MOV MOV MOV	### STATEMENT # 176  740  ; STATEMENT # 178  ES, CS: @CONS (
026E 026F 0275 0278 0276 0281 0283 0285 0288 0285 0285	2638163800 2638163800	MOV MOV	# 176  PAO  STATEMENT # 176  PAO  STATEMENT # 178  ES, CS: @CONS ( AX, ES: LOW  DX, ES: LOW+2H
026E 026F 0275 0278 0270 0281 0282 0283 0285 0288 0286	E90800 9A00000000 E9EFFE <u>@@0000</u> 2ESE080000 26SE083800	OALL  JMP  O4:  MOV  MOV	# 176  PAO  STATEMENT # 176  PAO  STATEMENT # 178  ES, CS: @CONS ( AX, ES: LOW
026E 026F 0275 0278 0270 0281 0282 0283 0285 0285	E90800 9800000000 E9EFFE <u>@@0000</u> 2888060000	OHP O4:	@@000004 SYNC2 ; STATEMENT # 176 ?40 ; STATEMENT # 178 ES.CS:@CONS?
026E 026F 0275 0278 0270 0281 0282 0283 0285 0288	E90800 5800000000 E9EFFE @@0000	CALL JMP 04:	@@000004 SYNC2; STATEMENT # 176 ?40 ; STATEMENT # 178
026E 0275 0278 0276 0270 0281 0282 0283 0285 0288	590500 59000000000 E9EFFE	CALL.	@@000004 SYNC2 ; STATEMENT # 176 ?40
026E 0275 0278 0276 0270 0281 0282 0283 0285 0288	590500 59000000000 E9EFFE	CALL.	SYNC2 STATEMENT # 176
026E 0275 0278 0276 0270 0281 0282 0283 0285 0288	5400000000	CALL	SYNC2 STATEMENT # 176
026E 0275 0278 0276 0270 0281 0282 0283	E90800		@@000004 SYNC2
026E 0275 0278 0276 0270 0281 0282 0283	E90800		<u>@@00004</u>
026E 026F 0275 0278 027C 0281 0282 0283		- אויני	· · · · · · · · · · · · · · · · · · ·
026E 026F 0275 0278 027C 0281 0282	7703	JA	\$1
026E 026F 0275 0278 027C 0281	95	SAMP	
026E 026F 0275 027B 027C	58 -05	POP	AX TI
026E 026F 0275 027B	PEDDBEFAFF	FSTSW	CBPJ. @STACK+2H
026E 026F 0275	50	PUSH	AX .
026E 026F	9826D31E7400	FCOMP	ES: AENSP; /
	9B2ED9081200	FLD	CS:@CONST+12H; 7
0268	78	WAIT	
	9826D91E7400	FSTP	ESTRENSP; 7
0263	2E3E060400	MOV	ES, CS: ECONST+4H
<del>0258</del> -	<del>-982ED8350E00</del>	FDIV	CS: @CONST+ORH; 7
0237	980846FC	FLD	CBPJ.GTEMP3+4H
- <del>0256</del>	8946FC	1100	LBP3. @TEMP3+4H.AX
253	3956FE	- VOV	CBP1.eYEMP3+2H.DX
0248 - 024E		MOV CALL	CX.0H TR_100

	0320	263B06F300	MűV	AX, ES: TDELAY
	_ 03.20 <del>1331</del>	260806500 2688165800	MāV	DX;ES:TDELAY+2H
1	9 <del>336</del>	<del>-9400000000</del>	-CALL	TQ_152
	~ <del>0338</del> ~	<del>-75</del> 03	JNZ	\$451
	<del>-0380</del> -	ETSFOO	-JMP	<u>&amp;&amp;000008</u>
	<del>-0340</del> -	2E0E060000	MOV-	ES+CS: econst
	0345	<del>-263B06FC00</del>	MOV	AX, ES: TIMER
	<del>-034A</del> -	268B14FE00	MOV	DX+ES+7IMER+2H
	-034F	81000100	ADD	-AX-1H
	<del>-0353-</del>	-61B20000	-ABC	- BX+OH
	0357	268706FC00	HOV	-ESITIMERIAX
	-035C	260916FE00	MeV	ESFERENZIMBA
	<del>-0361-</del>	-260B0EF600	HOV	- CX+ES+TBCLAY
	0366	26081EFA00	MOV	BX+ES+TBELAY+2H
	- <del>0365</del> -	<del>- 07D7</del>	XCHO-	DX+CX '
	<del>- 0360 -</del>	<del>- 24000000000</del>	CALL	- Tù::150
	-0372-	<del>7803</del>	JOE -	*+5H
	<del>-0374</del> -	-E90500	-dMP	<del>- 220000007 </del>
	<del>- 0977</del> -	<del>- 9<b>A000</b>00000</del>	CALL	CHOMP
		<del></del>		
	<del>- 0576</del> -	E96E00		<del>?60</del>
		<u> </u>	<del>5</del>	
				STATEMENT # 193
	037F	-2ESE060800	MOV	ES, CS: QCCN3T+SH
	<del>- 0334</del> -	263B06EC00	-MŬV	- AX, ES: MOCFCC
	<del>- 0369</del> -	-269016EE00	MOV	
7	<del>&gt;38E</del> -	- BODS ,	RER	HC71
7	<del>5390</del> -	7303		\$+5H
	<del>-0392</del> -	<del>-290000</del>	-JMP-	<del>- 6600000A</del>
	0395	<del>9800000000</del>	-CALL	CHOMP
				STATEMENT # 195
	<del>- 039A</del> -	<del>- E75000</del>		760
		<u>@@0000</u>	<del>5:</del>	
		<del></del>		STATEMENT # 197
	<del>- 0370-</del>	<del>2E8E060000</del>	MOV-	£3, £3: &£0N31
	OSAZ-	268B06E400	MOV	HX,ES:FRMOOP
	03A7	268B16E600	MOV	DX; ES: PRMOOP+2H
	<del>03</del> 40-	<del>26380E0001</del>	MOV	CX, ES: DMOOF
	<del>- 0351</del> -	26531E0201	MOV	3A, ES DMOOF TZH
	<del>- 0386-</del>	<del>-8709</del>	XCHO	EX,CX
	- 6460	-53	- <del>PU3H-</del>	- BX · · · ·
	<del>0389</del>	<del>51</del>	PUSH	- <del>CX                                   </del>
	038A	9A00000000	-CALL	- 7g_150 .
	0.38F	-58	FOF	HX 12
	<u>0300</u>	-5A	- 40th	DX , I
	0301	7503	JNZ	\$+5H
	<del>- 0303</del>	E92700	-JMP	<u>6600000</u>
<del></del>	<del>- 0306</del>	2E8E060000	HOV	ES, CS, ECONST
	<del>036b-</del>	<del>-2607160401</del> -	MOV	ES: PS:MOOP+DX
	<del>- 03B0</del> -	<del>- 2607060601</del>	<del>- VOY -</del>	ES+PBNGOP+2H, AX
	<del>- 0305</del>	<del>- 2E8E060800</del>	-MGV	EST CS: Q:CONST+8H
<u>_</u>	- OBDA	<del>- 250706E000000</del>	M©∀	ES: MUGPCC; OH
7	<del>PSE1</del> -	<del>25070&amp;EE000000</del> -	<del>MOV</del>	ES+MOGPCC+2H+0H
7	+3E9	<del>9800008000</del>	CALL	CHOMP
		<del>2200000</del>	<del>/}1</del>	
		<del></del>		
				- A.12
				T \ A & b.

			; STATEMENT # 203
JGED-	9A00000000	CALL	SYNC2
			; STATEMENT # 204
03F2	EPIEFF	JMP	?50
	<u>@@00000</u>	J:	
<del>OSFS</del>	2E8E060800	MOV	; STATEMENT # 206 ES,CS:@CONST*8H
03FA	-26C706A0000000	MOV	ES:INTIAL,OH
<del>0401 -</del>	26C706A2000000	MOV	ES: INTIAL+2H, OH
0408	2E3E060000	אטער -	ES, US; @CONST
040D	2688066400	MOV	AX, ES: NSUSMG
0412	268B166600	MOV	DX,ES:NSUSMG+2H
0417	2689065800	MOV	ES:DIGOUT+18H,AX
041C	2637165A00	MOV	ES:DIGOUT+IAH,DX
0421	280708FC000000	אכיויו	ES:TIMER, OH
0423	26C706FE000000	MOA	ESTTMER+2H, OH
	?100:		
			STATEMENT # 210
042F	9A0000000	CALL	SYNCI
<del>0434</del>	<del>980000000</del>	CALL	SEGINT # 211
<del></del>	>H0000000	CHLL	
<del>0439</del>	<del>900000000</del>	CALL	SENGER STATEMENT # 212
	71103030		, STATEMENT # 213
043E	9A0000000	CALL	SEVUS
			; STATEMENT # 214
0443	<del>9000000000</del>	CALL	SESEA
			; STATEMENT # 215
7448	<del>900000000</del>	CALL	FREQIN
		<del></del>	STATEMENT # 216
044D	9A0000000	CALL	ANLGIN
	APP		STATEMENT # 217
<del>0452</del> -	-2ESE066000	MOV	ES, CS: @CONST
⊕457 <del>045</del> 0	265806E000 265816E200	MOV	AX, ES: DIRST
<del>)461</del>	26350E7800	110V	DX;ES:DTRST+2H
0465-	26081E7A00	-MOV	BX, ES; NTRAL+2H
<del>046B</del>	3709	XCHO	BX,CX
	<del> 100000000</del>	CALL	TQ_150
<del>0472</del>	7403	JZ	\$ <del>+5H</del>
0474	E92100		<u>©@000010</u>
<del>0477</del>	2E8E060000	MOV	ES; C3: ECONST
047C	26C70634010000	MOV	ES: DLCVV, OH
<del>0433</del>	~26C70636010000	MOV	ES: DLCVV+2H, OH
<del>048A</del> -	26C70638010000	MOV	ES: DHCVV, OH
0491	28C7063A010000	MOV	ES: DHCVV+2H, OH
	1000009	Ų:	
			STATEMENT # 221
<del>04</del> 53	2585050000 2688065400	MOV	ES, CS: @CONST
<del>0472-</del>	268816E600	MOV	AX, ES: PRMOOF BX, ES: PRMOOP+2H
<del>0487</del> -	268B0E6800	-MOV	CN: ESTEND
<del>04AC</del>	26881E6A00	-MOV	BX:E3:LAND+2H
\ <del>4B1</del>	- <del>6789</del>	<del>- XCH5</del>	BX, CX
/483	- <del>9400000000</del>	CALL	TQ_130
	7.03	JNZ -	\$\frac{100}{2}
	EPSEOO	- IMP	<u> </u>
<del>- 048A</del>			

				- K.14
			777	EG+DS+@CONST
		2E0E060000		\$2000013 
	<del>79</del> —	<del>7403</del>	JZ	#+5H
	97_	<del>/}^00000000</del>	CALL	70-152
	<del>00</del> <del>92</del>	<del>2600169A01</del>	MOV	DX,ES:DHCVV+2H
	<del>88</del> -	2688063801	MOV	HX, ES: DHCVV
	€€	255E060000	MOV	ES-CS+econst
_	<del>(3()</del>	E94500		<b>22</b> 000013
	7E	7303	JNZ	\$+5H
<del>05</del>	77	<del>- 9</del> 40 <del>000000</del>	CALL -	TR_150
	77	8709	XCHG	BX; CX
<del>05</del>	72	26661E7A00		BX;E8:NTRAL+2H
ÜŞ	<del>'6D</del>	266B0E7800-		CX,ES:NTRAL
<del>05</del>	<del>68</del> -	268816E200	MÖV	DX-ES: DTRST+2H
<del>ù5</del>	<del>6:3</del>	269D06E000		AX,ES:DTRST
05	<del>5E</del> -	2E0E060000	MCV	ESTOS: GCONST
				STATEMENT # 222
		@@000		20-2120012N) DA
95	<del>159</del> -	260916EE00	- MOV	E3: 01005; HX
Ů:5	<del>:54</del>	268906E800	— MöV——	ES: DTDOS; AX
<del>0</del> 5	-	-2608168A00	Mav	DX,ES:LOW+2H
	44-	268E060000	MOV	ES, CS: @CGNST
	14 <del>5</del>	2E0E060006	MOV-	<u> </u>
	42	E91908	- JMP	
	40.	<del>7403</del>	UMCL.	- Tig_150
	/3/ ₩ <del>10</del>	9400000000	- CALL	BX CX
		-07f()		BX+ES+TRNSTN+2H
	34	-260B1E6E00	MOV	CX+E3+TRNSTN
_	72F-	266B0E6C00	MÖV	DX+E3+P5MO3P+2H
-	52A-	260 <b>0160601</b>	MBV	AX+E9+PBM60P
	525	<del>2E6E060000</del> <del>260B0</del> 6 <del>0401</del>	MOV-	ES-CS-ECONST
	520-		JMP	<u> </u>
_	511) 511)	F93600	<del>JZ</del>	*+5H
	5 <del>16</del> -	<del>-9800000000</del> -7403	CALL	TQ_150
	<del>514</del> -	<del>- 0769</del>	XCHO-	BX, CX
	<del>50F</del> -	<del>-26001E6A00</del>	MOV	BX+E3+LAND+2H
	50A	<del>-26890E6300</del>	MOV	CX-ES-LAND
-	5 <del>05-</del> -	260B14E600	MOV	DX+E3+PRMOOP+2H
	<del>500</del>	-268B06E400	MOV -	AXVES I PRIMOSE
_	4 <del>FB</del> -	-2E0E060000		- E9+C9+CCONST
_			· · · · · · · · · · · · · · · · · · ·	1 STATEMENT # 222
			<del>011</del>	
04	<del>4F-6</del>	<del>-260916EE00</del>	MOV	E9+DTB09+2H+DX
-	4-1	<del>- 260706E000</del>	<del> MÖV</del>	ES*BTB99; AX
-	4EC-	-260B168A00-	MOV	BX-ES-LGW+2H
-	4E7-	<del>-2600060000</del>	M8V	AX, ES:LCH
·	4E2	<del>2E9E060000</del>		ES+CS+ @CONST
_	4DF	E91900	- JMF	- <del>22000011</del>
0	<del>400</del> -	7503	UNZ	\$+5H
÷.	<del>4E::3-</del>	- <del>-9400000000</del>	CALL	TQ_130
٠Ô٠	4B6	<del>-0709</del>	XCHS-	DX, CX
٠,	401	-26881E8200	Mav	DX,ES:DRIVE
	<del>400-</del>	<del>- 2488028000</del>	MaV	
_	<del>4:7</del>	<del>-260016E200</del>	<del>MBV</del>	DX+ES+BTRST+2H

.....

05A1	268B063401	MOV	AX, ES: DLCVV
75A6	2688163601	MOV	DX,ES: DLCVV+2H
SAL	9A00000000	CALL	TQ_152
<del>05</del> 80	7403	JZ	\$ <del>+5</del> H
OSB2	E91300	JMP	66000013
0585	2E8E060800	MOV	ES, CS: &CONST+8H
Haco	26C7060C010100	-MOV	ES:NCLTCH; IH
<del>0501 -</del>	2607060E010000	MOV	ESTNCLTCH+2H, OH
	<u>@@0000</u> 1	3:	
			STATEMENT # 224
<del>0588</del> <del>0588 -</del>	2E8E060000	MOV	ES, CS: @CONST
0502	268806E400	MOV	AX,ES:PRMOOF
	268816E600	MOV	DX;ES:PRMOOP+2H
0507	263B0E7000	MOV	CX,ES:SEA
<u>ುವರದ</u>	26881E7200	MOV	BX,ES-SEA+2H
USEI	3709	XCHG	EX,CX
05E3	53 .	PUSH	BX 1
05 <u>E4</u>	-51	PUSH	CX ; 2
OSES	<del>9800000000</del>	CALL	TQ_150
OSEA OSEA	53 5A	PUP	AX Y 2
0563		POP	DX ; 1
DEC	7503	JNZ	¥+5H
OSEE	E92000	JMP	@@000013
05/1	2E3E060000	MOV	ES, CS: ECONST.
05F6	268B0E0401	MOV	CX,ES:PDMOOP
OSPB -	26581E0601	MOV	BX, ES: PDMOOP+2H
0600	37C1	XCHG	AX,CX
1602	3703	XCHG	DX, BX
<u> </u>	7A0000000	CALL	TQ_150
<u> </u>	7503	JNZ	\$+5H
060B	E90300	JMP	@@000015
うらいだ	E91300 @@00001	JMP	@@000014
0611	2E8E080800		
<del>Osia</del>	26670800010000	MOV	EST CS: CONSTASH
oere <del>oerb</del>	2607060E010000 - 2607060E010000	MUV MOV	ESTNOLTCH, OH
	26C/060E010000 @@00001		ESTNCLTCH+2H, OR
		· -	; STATEMENT # 225
<del>0624</del> -	2E8E060000	MOV	ES, CS: @CONST
0 <del>629</del> -	268806E400	MOV	AX, ES. PRMOOP
<del>062E</del>	2688168600	MOV	DX,ES:PRMOCP+2H
<del>%33 -</del>	268B0E6800		CX, ES: LAND
<del>0636 -</del>	26801E6A00	MOV	BX,ES:LAND+2H
<del>0630 -</del>	3709	XCHG	BXTCX
<del>063F</del>	<del>9800000000</del>	CALL	TQ_150
<u> </u>	7503	JN2	\$95H
0546	E91900		<u> </u>
064 <del>9</del>	2E8E060800	MOV	ES, CS: CONST+8H
064E	268B060C01	MOV	AXTESTNCLTCH
<del>0653 -</del>	268B160E01	MÖV	DX, ES: NCLTCH+2H
<del>0658</del> -	<del>-0008</del>	RCR	AL,1
<del>065</del> A	7303	JNB	→+3H
<del>0650 -</del>	<del>- E90300</del>	-UMP	<u> </u>
765F	E99000	-JMF	<u> </u>
	<u>@@00001</u>	7:	
	· · · · · · · · · · · · · · · · · · ·		; STATEMENT # 226
0562	<del>ZESE060800</del>	MOV -	ES.CS: @CONST+SH

that the court of the control of the

	•		
0667	26F606A40001	TEST	ES:SFTINP,1H
<del>ಿದರ</del> ಿ	7503	-JN2	**3H
<del>66</del> ₽	E90300	-UMP	<u>@@000018</u>
<del>3672</del>	- <del>940000000</del>	CALL	SHIFT
	<u> </u>		; STATEMENT # 228
<del>3677</del>			7900
	<del></del>	8:	
1/7/	250501,0000	MG! I	TO CO. CONTO
<del>367A</del> -	<del>- 2E0E060000</del>	MOV	ES, CS+ @CONST
<del>367F</del> −	260B06E000		AX, ES: BTDGS
<del>)684</del> -	<del>-260916EE00</del>	MOV	- DX+E3+BTD03+2H
<del>3607</del>	-26000EF400	HÖV	- CX+ES+PTD6S
> <del>₹SE</del>	-268B1EF600	- MOV	₽%₁E3÷PTB09+2H
<del>3693</del> .	- 9769	-XCHO	BXvex
<del>3695</del>	<del>- 2400000000</del>	-CALL-	- TQ_150
<del>369A</del>	<del>-7403</del>	<del>-JZ</del>	\$+5H
<del>369C-</del>	E91900	-JMP	<del>- 22000</del> 020
369E	<del>-2E6E660000</del>	<del></del>	ESVESTREAMST+OH
<del>)644</del>	<del>2688060C01</del>	-MOV	AX-ES: NCLTCH
3 <del>687</del>	268B168E01	- MOV	DX,E3:NCLTCH+2H
36AE	-B0B0	RCR ·	AL, 1
<del>odbo-</del>	<del>-7303</del>	<del>्यभ४</del>	*+5H
<del>)682</del>	E90300		<u> </u>
<del>)685</del>	E94700	-JMP	- <u>@@000019</u>
	<u>@@00002</u>	<u> </u>	
			; STATEMENT # 231
<del>9688-</del>	<del>- 2E3E060300</del>	MOV	ES, CS: econst+5H
<b>Udor</b>	<del>- 26070684000100</del>	MÜV	ES:SFTINP; IH
<b>304</b>	260706A6000000	MOV	ESISFTINP+2H,OH
<del>JOCK</del>	<del>2E3E060000</del>	MOV	ES.CS. @CONST
<b>3650</b>	268806EC00	- MOV	AX,E3:DTDGS
<del>)685</del>	263516EE00	MÖV	DX, ES: DTD0S+2H
<del>)684-</del>	268706F000	MOV	ES: PDTDOS, AX
<del>JOBE -</del>	- <del>263916F200</del>	-MÖV	ES-FDTD0S+2H, DX
OCEA	- 2A00000000	- CALL	SHIFT
			STATEMENT # 234
<del>೦೬೬೨</del>	2E8E060800	-MOV	ES, CS: @CONST+8H
OCEE	268806A400	MOV	AX, ES: SFTINP
<del>odF3</del> -	268816A600	MOV	DX, ES: SPTINF+2H
<b>うらドモ</b>	DODS	RCR	AL,1
OSFA	7303		3+3H
	<del>E90101</del>	- HIL	7300 · · · · · · · · · · · · · · · · · ·
	<u>@800001</u>		
	<u>@@00001</u>	6:	
			; STATEMENT # 237
7565	2E3E060000	MOV	ES, CS: @CONST
<del>)704</del>	263B06F800	MOV	AX, ES: TUELAY
0709	268B16FA00	MOV	DX, ES: TDELAY+2H
370E	<del>9800000000</del>	CALL	TQ_152
<del>)713</del>	7593	-UNZ	\$+5H
<del>)715</del> -	E93F.00	JMP	<del>- @@000021 - ` </del>
<del>9710</del>	<del>-2E0E060000</del>	MUV	- ES+C9+@CONST
<del>9710</del>	<del>269806</del> F6 <del>90</del>	-MOV	- AX, ES: TIMER
<del>)722</del>	260016FE00	<del>-MÚV-</del> ~	- BXyES*TIMER*2H
727	<del>31000100</del>	- ADD	AX, 1H
	81000100	ADC	BX, tH
7		MOV	- ESITIMER, AX
37 <del>28</del>			E-20 TABLE N. PIA
-72F	<del>260706FC00</del>	1104	

and the second second

				; STATEMENT # 252
	- <del>0705</del>	2E3E040300	MOV	ES. CS. &CONST+8H
	107CA	268806A400	MOV	AX, ES: SETINP
	-07CF-	<del>-268816A600</del>	MŬV	DX-ES: SFT!NP+2H
	<del>-9704</del> -	<del>-6000</del>	<del></del>	
	<del>-0786-</del>	7808	UNB	3+5H
	<del>- 0788-</del>	<del>- E97500</del>	- IMP	?300
<b>-</b> ,	770B	-2E0E060000	<del>MeV</del> -	ES, CS: &CONST
	7 <del>E0</del>	<del>-268B0EE000</del>	Seal-Maria I	
(	- CE-C		MUV	CX, E3: DTRST
	UZEJ	26881EE200	MOV	BX, ES: BTRST+2H
	<del>-076A-</del>	<del>-2688969000 -</del>	MOV —	SI, ES: DRIVE

A.17

	OZEF	268B3E3200	MOV	DI.ES: DRIVE+2H
-1	17F4-	87 <del>0</del> 1	XCHG	AX,CX
{	<del>756 مر</del>	9763	XCHO	- DX, EX
	<del>07FS</del> -	276E	XC110	BX,SI .
	<del>-07FA-</del>	970F	- XCHG -	CX,DI
	<del>-07FC</del> -	<del>- 50</del>	PUSH	AX + 1
	<del>-07FD-</del>	<del>-52</del>	<del>PUSH</del>	- DX
	<del>-07FE</del> - - <del>0803</del> -	50	CALL	79-150
	-0604	-EA	PGP	DX +1
	<del>-0007</del>	7503	UNZ	\$+5H
	0807	E92000	ONE	<b>10000024</b>
	<del>-0007</del> -	2E8E060000	MOV	ES+CS: @CONST
-	-080F-	26880E7C00	MOV	CX+E3+REVRSE
	<del>-0314-</del> -	260B1E7E00	MOV	BX.ESTREVRSE+2H
	-0619-	<del>-8702 \</del>	XCHā -	AXYDX
	<del>-0015</del> -	<del>- 8789</del>	XCHB -	BX,CX
	-081D-	<del>-2400000000</del>	CALL	TÚ 150
	-0022	<del>-750</del> 3	UNZ	\$+5H
	0024	<del>- E90300</del>	UMP	- <b>66</b> 000057
	0827	E90500	- IMP	<del>- @@000025</del>
		26000		
<del></del>				STATEMENT # 259
	-082A	<del>-940000000-</del>	CALL	DEMOS
		<del>@@000</del>	<del>025:</del>	
		<del></del>	<del></del>	STATEMENT # 254
	-082F-	<del>2E8E060000</del>	<del></del>	ES+CS+ CONST
$\neg$	\ <del>3:34</del> -	<del>-263806E000</del>	MOV	AX,E3:DTRST
_ب	<i>3</i> € <del>89</del> -	<del>268816E200 -</del>	MOV	9X, E3; 9TR3T+2H
	-003E-	<del>-26000000</del>	MOV -	- CX+E9:DRIVE
	<del>- 0848 -</del>	26881E8200	<del></del>	BX, ES: DRIVE+2H
	<del>-0343</del> -	<del>8769</del>	XCHG	<del>EX,CX</del>
	<del>- 00 44 -</del>	<del>-50</del>	PUSH	AX - 1
	<del>-0848</del> -	-52	PUSH	- DX
	<del>-0040-</del>	<del>-9400000000</del>	CALL	- TQ_150
	<del>0051-</del>	<del>50</del>	<del></del>	AX 1 2
	<del>-0852-</del>	- <del>5</del> A	<del></del>	- DX
	<del>-06.53-</del>	<del>750</del> 3	JNZ	<del>+5H</del>
	<del>0855-</del>	E92000	JMP	<del>- 62000028</del>
	<del>-035</del> 8-	2E3E060000	MōV-	ES.CS: @CONST
	<del>- 085B-</del>	26880E7000	MOV	CX+ES+REVRSE
	UB62	268B1E7E00	MōV	BX,ES:REVRSE+2H
	<del>-0867</del> -	3702	XCHG	AX,DX
	<u> </u>	3709	XCHG	BX,CX
	<del>0368</del>	7800000000	CALL	TG_130
	0370	7503	JNZ	\$+5H
	0872 0873	270300 E20300	- THE	78000028
	<u> </u>	E90500 @@000	JHP	@@000027
	-0878-	- <del>900000000</del>	CALL	HOTREP
		<del>2000</del>		/ (C) / ( \
	·			
	- <del>007b -</del>	<del>-9400000000</del>	CALL	ECAN .
-1				1 STATEMENT # 256
_ 7	<del>ڪيون</del> ر	<del>-2E0E060000</del>	MOV	ES+ CS+ &CONST
	0887	268806E000	MÖV	AX,ES&DTRST
	<del>-000</del> 0	260016E200	MOV	DX1E31DTR9T+2H
	<del></del>		<del></del>	- A.18

0891	268B0E80 0	MOV	CX, ES: DRIVE
358	268B1E8200	MOV	BX,ES:DRIVE+2H
/ <del>75</del>	3709	XCHO	EXTOX
USSC.	50	PUSH	AX ; I .
)39E	52	FUSH	DX ; 2
JEPF	900000000	CALL	TQ_150
DEA4	58	909	AX 5 2
CASC	5A	PCP	DX ; I
386C	7503	JNZ	\$+5H
SASC	E83000	JMP	£6000030
BAST	2ESE080000	MOV	ES, CS: @CONST
2880	26880E7C00	MOV	CX,ES:REVRSE
0685	263B1E7E00	MOV	BX,ES:REVRSE+2H
JEBA	87C2	XCHG	AXIDX
3880	3709	XCHG	BX,CX
SBE	9800000000	CALL	TQ_150
3663	7503	JNZ	\$424
<del>3505</del>		- IMP	- <del>@@00</del> 0030
2000	E90500		@@000029
	E6000	_	
BUSC	9800000000	CALL	ANTSTL
	£6000		, in the second
<del></del> -			
			STATEMENT # 258
ວຣກວ	980000000	CALL	PWMOUT
0000	7H(10000000	UMLL	STATEMENT # 259
<del>8080</del>		CALL	ERROUT
<u> </u>	>H00000000		
-Marke		CALE	SYNC2
SUA	9A00000000	UHLL	
OBDE	2585080200	MOV	STATEMENT # 261
ood. Ose4		HOV	AX, ES: JCARDS
<del>USE 9</del>			DX;ES: JCARD3+2H
CEE		SAL	AX,1
USFO		SAL	AX,1
ospo Jefiz		XCHO	DX, AX
		LEA	BX, DIGINIBX-4HI
OSF4	2ESE060000	- HOV	ES, CS: &CONST
03F7			
<del>DSFC</del>		PUSH	E5 ; 1
OSFD		PUSH	EX ; 2
OSFE		LEA	BX,WIDTH3
0902		- MÖV	ES, CS: @CONST*2H
<del>0907</del>		PUSH	ES , 3
<b>0908</b>		PUSH	EX ; 4
0909		LEA	BX, SEGIN:
090 <u>0</u>	=	PUSH	· ES ; 5
090E	· · · · ·	PUSH	BX ; &
<del>090F</del>	<u>-</u>	CALL	SUITS
0914		CALL	MUERINT
<del>0919</del>		MÖV	ES, CS: @CONST
<del>091E</del>		MOV	ES: ENGNON, AX
0923	268916A200	MOV	ES: ENONON+2H, DX
			STATEMENT # 202
		LEA	8X, ENONON .
928	* ************************************		
928 920		MOV	ES, CS: CCONST
	2E5E060000	PUSH	ES ; 1
72C	<u> 2E8Eの800のの</u> の8		

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and the section of the first of the section of the

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09F4	2E8E060000	MOY	ES, CS: @CONST
ALA.	260747300000	MOV	ES:DIGOUT(BX-4H),OH
- <del>-   -   -  </del>	2607473E0000	MOV	ES-DIGOUTIEX-2H1, OH
	?400:		
·		······································	; STATEMENT # 268
<del>COAU</del>	2E8E060200	MOV	ES.CS: &CONST+2H
HOAC	26810660020100	ADD	ES: I, IH
<del>0A11</del>	26311662020000	ADC	EST 1+2H, OH
วิศาเส	E7BOFF	<u> </u>	<u> </u>
	@@00003		66,0000Z
		<del>-</del>	T STATEMENT # 269
<b>ेभ<u>1</u> छ</b>	#80000	MOV	AX,OH
TAIE "	BA0000	אטע – יי	DXTOH
DAZT -	2ESE060200	MOV -	ES, CS: @CONS1+2H
7A26-	<del>2689066002</del>	MOV	ES:1,AX
DAZB	2637166202	MOV	ESVI+2H, DX
028C	39C1	MOA	CATRA
7 <del>132</del>	2E3E060000	MOV	ES, CS: CCONST
0A37	2689067C01	-MOV	ES-IDES, AX
783C-	2689067C01	MOV	
JA <b>41</b> -	2007UE/EUI		ES: IDES+2H, CX
		MOV	EX, Αλ
JAAS	2689063001	MOV	ES:PFTVV, AX
A43	26891E5201	MOV	ESTPFTVV+2H, DX
DAAD	89C6	MOV	SI,AX
PAF	2689065801	MOV	ESISFIVVIAX
0A54	2689365A01	MOV	ES:SFTVV+2H,S1
CAC	89C7	THOY	DITAX
P38	2689065401	MOV	ES:SATVV, AX
<del>460</del> -	26893E3601	MIDV	ES:SATVV+2H,D1
ones -	-67C2	MOV	DXVAX
DACT	2639064C01	MOV	ESIPATVVIAX
JASC	2689164E01	MOV	ES:PATVV+2H,DX
<del>)471</del>	E908F5		710
			STATEMENT # 276
<del>0674</del>	277700	-UMP	<u>@@000034</u>
	<b>#800003</b>	1:	,
			; STATEMENT # 277
DAYY	2E3E060200	- MOA	ES,CS:@CUNST+2H
5 <del>470</del>	<del>-2682063402</del>	MOV	AX, ES NORMAL
<del>0981</del>	2668163602	MOV	DX;ES:NORMAL+2H
JAS&	2E3E080000	MOV	ES. CS. ECONST
<del>odeb</del> -	<del>- 2639063000</del>	-MOV	ES: DIBOUT+1CH; AX
DATO -	2689165E00	MOV	ES: DIGOUT: IEH, DX
0A93	2E3E060200	MÖV	E5, C5: @CONST+2H
A9A	26C706&0020400	MOV -	ES- 1, 4H
)AA1	26070862020000	MOV	
	<u> </u>		ESTITZH, OH
	== = = = = = = = = = = = = = = = = = = =		STATEMENT # 278
TAS-	2E8E080200	עיטאו	ES,CS;@CONST+2H
HAL	<del>2698066002</del>	-MÖV	- AX: 23: 1
3 <del>152</del> -	<del>-268</del> 8 <del>166202</del>	MOV	- DX y E91 1+2H
OAB7	BB0700	- HOV	EX.7H
ond) Onde	190000		
		MCV	CX. DH
. — •		PUSH	HX 7 1
ABE	32	FUSH	DX ; 2
ग्रे <b>न्डिन</b>	9 <del>0000000000</del>	CALL	TQ_150
PAC4	- <del>3</del>	F-C-P-	MX 2
		<del></del>	**************************************
			A.21
		·····	

. مــــ	OACS	5A	POP	DX ; 1
	PACS PACS	7E03 E92B00	JLE	\$+5H
1			- JMP	<u>@@00003&amp;</u>
	OACE OACE	D162	SAL SAL	DX:1
	<del>OACF</del>	-070A	->=L X <del>CHO</del>	DX,1 BX,DX
	OAD:	-2E0E0&0000	MOV	ES, CS: CONST
	OADS.	-26074790000	MOV-	ES: DIGOUTESX-4H3+OH
	<del>-OADG</del> -	-2607473E0000	- <del> 4 3/</del>	ES-DIGOUTEDX 2H3yoH
		7500+		20121030112N 21117011
				1 STATEMENT # 230
	OAE2	2E8E060200	-MGV	- EG+CG+@CONST+2H
	OAE7	26010660020100	ADD-	- C9: 1, 111
	-OAEE-	<del>-26011662020000</del>	ABC	- ES+ I+2\\v0\
-	OAF5	EPROFF		- <del>22000035</del>
		<b>@@</b> 00003		
				STATEMENT # 281
	-OAFO-	2E8E060200	-MOV	ES+C3+CCONST+ZH
-		<del>26070660020000</del>	HOV	E3:1,0H
	- <del>0804</del> -	<del>-260)0662020000</del> -	MOV -	E8: 1+2H, 0H
		E921F9		?100
		<u> </u>		
		*600:	<del></del>	
		•		STATEMENT # 285
	- OBOE	<del>9A0000000</del> 0	CALL	TQ_999
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STORAGE REQUIREMENTS FOR MODULE ATR:

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	CODE AREA SIZE	COAFDH	28130			•
	CONSTANT AREA SIZE	COUISH	220	•		
	VARIABLE AREA SIZE	-00002H	20			
~~~~	MAXIMUM STACK SIZE	00010H	160		· ····································	
	/ERROR/	0012CH	3000			
	/MOUT/	OOOCEN	1980			
	/CINOUT/	0019CH	4120	<u> </u>		
	/BITFNC/	00268h	6150			
	/CALC/	- OOZOCH	5240			
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	LOGICAL#4 FUNCTION TBIT (NAME, DIT)
	INTEGER*4 RESULT: MASK(16); NAME, 817
<del></del>	COMMON / BITTING/ BUMMY, MASK
_	RESULT=NAME, AND. MASK(BIT)
<del>5</del>	IF (RESULT, EQ. 0) THEN
<del></del>	TOTT-TALSE.
<del>7</del>	
<del></del>	TDIT=: TRUE:
<del></del>	ENDIF
-10	RETURN
	CND
-2.1	
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	- A.24

12	FUNCTION SBITS(NAME, WIDTH, BEGIN)
7 13	INTEGER*4 RESULT, MASK(16), NAME, WIDTH, BEGIN, RMASK, END
1 14	COMMON /BITFNC/ RESULT, MASK
12	RMASK=0 -
16	END=BEGIK+(WIDTH-1)
17	DO 10 K-BEDIN, END
<del></del>	RMASK=RMASK.OR.MASK(K)
19 1	O CONTINUE
<del>20</del>	SBITS-MAME. AND. RMASK
	RETURN
	END
	-
<b>-</b>	
<b></b>	
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7	
	- A.25
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TANDA AND AND AND AND AND AND AND AND AND
INCLUDE (-F2:DATATA.FOR) INTEGER:4 RESULT, MASK(16), NAME
*·····
INTEGER*4 BIT, BIT1, BIT2, BIT3, BIT4, BIT5, BIT5, BIT7, BIT3, BIT7  INTEGER*4 BIT10, BIT11, BIT12, BIT13, BIT14, BIT15, BIT14, BIT17, BIT18
INTEGER*4 BITTOVBITITY BITT22, BITT23, BITT24, BITT25, BITT26, BITT27, BITT28
INTEGER*4 DIT30, DIT31, BIT32, DIT33, DIT34, DIT35, BIT36, DIT37, DIT38
INTESER*4 BIT40, BIT41, BIT42, BIT43, BIT44, BIT45, BIT46, BIT47, BIT48
INTEGER:4 BIT19, BIT29, BIT39, BIT49
INTEGER*4 BEGIN: BEGIN2, BEGINS, BEGIN
INTEGER*4 BEONS, BEON10, BEON11, BEON12, BEON13, BEON14, BEON15, BEON16
INTEGER:4 WIBTHI, WIBTH2, WIBTH3, WIDTH4, WIDTH5, WIDTH6, WIBTH7, WIDTHS
INTEGER*4 WIDTS, WIDTIO, WIDTII, WIDTIZ, WIDTIS, WIDTI4, WIDTIS, WIDTIG
INTEGER*4 JOARDS, JOARDS, JOARDS, JOARDS, JOARDS, JOARDS, JOARDS
INTEGER: 4 JOARS, JOARSO, JOARSS, JOARSS, JOARSS, JOARSS, JOARSS, JOARSS, JOARSS, JOARSS
INTEGER*4 501, 502, 503, 504, 503, 506, 507, 508, 507, 5010
INTEGER*4 D011, D012, D013, D014, D015, D016, D017, D013, D017, D020
INTEGER+4 BG21+BG22+BG23+BG25+NORMAL+FOWER
INTEGER*4 D026, D027, D028, D027, D030
INTEGER*4 WIDTH, BEGIN, END, RMASK, I, K
LOGICAL #4 MSSF, TSSF, OSSF, DKNPSF, POSCSF, IND/SF
LOGICAL#4 HEGTSF, LBCLSF, LSKFSF, LBSFSF, LFCFSF
LCGICAL*4 LSCFSF, HFBFSF, LEGFSF, LPHLSF, LSHLSF
LOUICAL#4 TBIT, LSPPSF, FIRESP
LOGICAL*4 FISCSF, F2SCSF, F3SCSF, F4SCSF, F5SCSF
L001CAL*4 515C5F, 525C5F, 535C5F, 545C5F, 555C5F
LOGICAL** LVSVSF, LCSVSF, HVSVSF, HCSVSF
LOGICAL#4 AEBPSF, SEWPSF, HOPVSF, FEBPSF, PGC3SF
LOGICAL*4 ROLSSF, LSTRWS, SLTRWS, INTIAL, SFTIME
LOGICAL*4 APSCSP, ASSCSP, DHMHSP, DHMLSP, DHMXSP, DYRNSP
Logical 44 Panhish, Panlish, Pannish, Panlish, Shinish, Shinish
LOGICAL * 4 SAMMSF, SAMUSF, ENCTSF, FROTSF, SHOTSF
LOSICAL+4 MOOPEC: MLTSSP: RENTRY
LUCICAL #4 NOPAN, F40PM, F30FM, F120, M, FTIME, NCLTCH
Logical *4 Alinof, Afsof, Afmof, Assor, Asmor, Afwor, Aswor
INTEGER#4 PATVV:PFTVV:SATVV:SFTVV
INTEGER#4 TAPECN, TASECN, TDHMSF, TDHMSR, TPAMPR, TPFMPR
INTEGER*4 ISFMPR, ISAMPR, IENCTM, IPHOTM, ISHOTM, IDTKNK
INTEGER*4 TRND:R
INTEGER*4 DIGIN(3), SUSMSG, NGUSMG
INTEGER*4 LAND, TRNSTN, SEA, PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW
INTEDER+4 TEST1, TEST2, TEST3, HYDPS3, HYDPS, ENGNOW, ENGMSG
INTEGER*4 CKPUMP, CKNAMP, CKPLST, CKRLST
INTEGER*4 CKPSLT, CKRSL1, CKRSL2
INTEGER: 4 TARNSP, TAPMSP, TAPSSP, TAPSSP, TAPWSP, TASWSP
INTEGER*4 OTRST, PRMOOP
INTEGER*4 TUELAY, TIMER, DMOOP, FUMOOP, DIGNUT(S)
INTEGER*4 SECFOF, PCFWNP, BLGFON
INTEGER*4 OCTD. GRULSE, GOTD, GRUPEN, POFWLF, DEGOFF, SEOWER
INTEGER*4 SUBBUN, DECVY, DIEVV, MNBPON, MBPON, TRESTP, SURISE
INTEGER*4 ERROLY-DTD69-FDTD69-FTD69
INTEGER*4 AUX1, AUX2, AUX3, AUX4, AUX5, AUX5, AUX7, AUX8, IDES
INTEGER*4 KSH9, RPMS, RSSS, KPSS, RES
INTEGER*4 PTVV STVV
REAL+4 AFBCAN, ASBCAN, DHMSP, DHMSR, DTRNK, PAMTER
REAL*4 FOR: NJCKST, INTOP1(-1:1) REAL*4 PEMIPR, SEMITER, SAMITER, ENCIEM, PHOTEM, SMCTEM
REAL # 4 Danish , Danish , Oblinish , MNT 16 , AUX 7 , AUX 10
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30=1	REAL*4 DHWSP, DHWSR, DPWSP, DSWSP
11=1	REAL*4 APPS, ASPS, AENSP, PMD13, PMDFP
<u> </u>	REALTA PMTRQ, DPMF, REPPT, FTREFF, REPST
83=1	REAL#4 APMSP, ASMSP, SMDIS, SMDFP .
\$4=1	REAL*4 SMIRQ, DSMF, SIKEFF, KEPI
85=1	REAL*4 DPFR1, PDIFP, DFPWJ, DSFRT, SDIFP, DPSWJ
36=1	REAL*4 PPDIS, PPDFP, APSSP, ASSSP
37=1	REAL® FPTRQ, DPPF, REPFP, FPMEFF, REPSP
33-1	REAL*4 SPDIS, SPDPP, MAXMSP, TREP, DES
87=1	REAL*4 SPTRU, DSPP, SPMEFF, REPP, ALPMSP, ALSMSP
90=1	REAL 4 ALPWSF, ALSWSF, MAXWSP, AUXPOW, TRIVPOW, TORQUE
	REAL#4 K1, K2, K3, K4, K3, K6, K7, K8, K9, K10
72=1	REAL*4 DHMSFB(4), PAMPR(10), SAMPR(10), PFMPR(10), SFMPR(10)
75-1	COMMON /BITTING/ RESULT, MASK, NAME
94=1	COMMON /BITTING/ BIT.BIT1, BIT2, BIT3, DIT4, BIT3, BIT6, BIT7, BIT8, BIT9
95=1	COMMON /SITEMC/ BITIO, BITI1, BIT12, SIT13, BIT14, BIT15, BIT16, BIT17
76=1	COMMON /BITFNC/ BIT20, BIT21, BIT22, BIT23, BIT24, BIT25, BIT26, BIT27
77-1	COMMON /BITFNC/ BIT30,BIT31,BIT32,BIT33,BIT34,BIT35,BIT36,BIT37
78×1	COMMON /BITFNC/ BI/40, EIT41, BI/42, EI/43, EI/44, EI/45, EI/45, EI/45
1260	COMMON /BITFNC/ BITTY, BITZY, BIT39, BIT49, BIT18, BIT23, BIT38, BIT48
100=1	COMMON /BITFNC/ BEGIN: BEGIN2, BEGIN3, BEGIN4, BEGIN5, BEGIN5, BEGIN5
101=1	COMMON /BITFNC/ BEGN9, BEGN10, BEGN11, BEGN12, BEGN13, BEGN14, BEGN15
102=1	COMMON /BITFNC/ WIDTHI, WIDTH2, WIDTH3, WIDTH4, WIDTH5, WIDTH7
103=1	COMMON /BITFNC/ WIDTY; WIDTIO, WIDTII, WIDTI2, WIDTI3, WIDTI4, WIDTI5
104=1	COMMON /BITFNC/ DEGINS, BEGNIG, WIDTHS, WIDTIS, JCARDS, JCARIG
105=1	COMMON /BITFNC/ JCARDI, JCARD2, JCARD3, JCARD4, JCARD5, JCARD6, JCARD7 /
10621	COMMON /BITTHC/ JCAR9, JCAR10, JCAR11, JCAR12, JCAR13, JCAR14, JCAR15
7=1	COMMON /BITPNC/ DG1, DG2, DG3, DG4, DG5, DG7, DG8, DG7, DG10
*=1	COMMON /BITFNC/ DG11, DG12, DG13, DG14, DG15, DG16, DG17, DG18, DG19, DG20
109=1	COMMON /BITTMC/ DO21, DO22, DO23, DO24, DG25, NORMAL, POWER
110=1	COMMON /BITFNC/ DG26,DG27,DG28,DG29,DG30 COMMON /BITFNC/ WIDTH,BEGIN,END,RMASK,I,K
111=1	COMMON /ERROR/MSSF, TSSF, GSSF, DKNPSF, PGSCSF, INDPSF
1:3=1	COMMON /ERROR/ HEUTSF, LBCLSF, LBCPSF, LBSPSF, LPCPSF
114=1	COMMON /ERROR/ LSCPSF, MFBPSF, LEOPSF, LPHLSF, LSHLSF
113=1	COMMON /ERROR/ LSPPSF,FIRESF
116=1	COMMON /ERROR/ FISCSF, P2SCSF, P3SCSF, P4SCSF, P3SCSF
117=1	COMMON /ERROR/ 313C5F, S2SCSF, S3SCSF, S4SCSF, S5SCSF
110-1	COMMON /ERROR/ LVSVSF, LCSVSF, HVSVSF, HCSVSF
119=1	COMMON /ERROR/ AEBPSF, SEWPSF, HDPVSF, FEDPSF, PGCSSF
120=1	COMMON /ERROR/ RCLSSF, LSTRNS, SLTRNS, INTIAL, SFTINE
121-1	COMMON /ERROR/ APBCSF, ASBCSF, DHMHSF, DHMLSF, DHMRSF, DTKNSF
122-1	COMMON /ERROR/ PAMMSF; PAMLSF; PFMHSF; PFMLSF; SFMHSF; SFMLSF
123-1	COMMON /ERROR/ SAMESF, SAMESF, ENCISE, PHOTSE, SHOTSE
124-1	COMMON /EKROR/ MOOPCO, MLTSSF, RENTRY
125=1	COMMON /ERRORY NOPAN, FAGEM, FEGEM, FIZOFM, FITHE, NOLTON
126-1	COMMON /ERROR/ AENSF; APSSF, APMSF, ASSSF, ASMSF, ASWSF
127=1	COMMON /CINCUT/ IAPBON, IABBON, IDMMSR, IDMMSR, IPAMPR, IPAMPR
125=1	COMMON /CINOUT/ ISFMPR, ISAMPR, IENCTM, IPHOTM, ISAUTM, IUTRNR
127-1	COMMON /CINOUT/ TRNDIR. DIGIN. DIGGUT, SUSMSO, NSUSMO
1-90-1	COMMON /CINOUT/ LAND, TRNSTN, SEA, PARK, NTRAL, REVISE, DRIVE, HIGH, LOW
131-1	COMMON /CINOUT/ TEST1. TEST2. TEST3. HY3P33. HYNDP3. ENGNUN, ENGISG
132-1	COMMON /CINOUT/ CKPUMP, CKRAMP, CKPLST, CKRLST
F-1	COMMON /CINOUT/ CKP3LT, CKRSL1, CKRSL2
4=1	COMMON /CINDUT/ TAEMSF, TARMSF, TASMSF, TARSSSF, TARWSF, TARWSF.
135-1	COMMON /CINOUT/ DTRST, FRMOUP, ERROLY, DTDGS, FDTDGS, FTDGS
1-36-1	COMMON /CINCUT/ TOE CAY, TIMER, DMOOF, POMOOF
137-1	COMMON JOINGUTT SECPUP, POPWINP, DEGPON
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<del>  39=1</del>	COMMON /CINCUT/ SUDOWN, DLCVV, DHCVV, MNSPON, MSPON, TRKSTP, SURISE
<del>(40=1</del> -	COMMON /CINGUT/ PATVV. PFTVV. SATVV. SFTVV
141-1-	COMMON /CINOUT/ AUX1, AUX2, AUX3, AUX4, AUX5, AUX5, AUX7, AUX8, ICES
<del>[42=1</del>	COMMON /CINCUT/ RSMS, RPMS, RSSS, RPSS, RES
<del>[43=1</del> -	COMMON /CINOUT/ PTVVvSTVV
144-1	COMMON /CALE/ APBCAN, ASBCAN, DHMSP, DHMSR, DTRNR, FAMTPR
<del>  45=1</del>	COMMON /CALC/ FOR HUCKST
196=1	COMMON /CALC/ PEMTPR/SEMTPR/SAMTPR/ENGTEM/PHOTEM/SHOTEM
<del>-47=1</del>	COMMON / CALC/ DOMSP DOMSP ODIMSP PATIO AUXO AUXO
<del>40=1</del>	COMMON /CALC/ DHWSP+DHWSR+DPWSP+DSWSP+INTCPT COMMON /CALC/ APPG+ASPG+ACNSP+PMBIS+PMBIP
L <del>50=1</del>	COMMON /CALC/ PHTRO DEMP REPET PTREFF REPORT
151=1	COMMON /CALC/ AFMSP, ASMSF, SMDIS, SMDFP
<del>  52=1</del>	COMMON /CALC/ SMTRQ, DSMP, STREET, REPT
<del>  53=1</del>	COMMON /CALC/ DPFRT: PDIFF: DPPWJ. DSFRT: SDIFF: DPSWJ
<del>  54= </del>	COMMON /CALC/ PPDIS, PPDFP, APSSE, ASSSP
155=1	COMMON /CALC/ PPTROVBPPPVREPPRVPPMEFFVREPSP
:00-1 ! <del>56=1</del>	COMMON /CALC/ SPDIS, SPDIFF, MAXMSP, TREF, DES
1 <del>57=1</del>	COMMON /CALC/ SPTRO-DESP-SPMEFF-REPP-ALPMSP-ALSMSP
1 <del>50=1</del>	COMMON /CALC/ ALPWSP ALSWSP MAXWSP AUXPOW TRNPOW TOROUS
<del>159-1</del>	COMMON /CALC/ K1+K2+K3+K4+K3+K6+K7+K8+K7+K10
1 60=1	COMMON /CALC/ DHMSPB, PAMPR, SAMPR, PFMPR, SFMPR
1-61-1	BATA RESULTY MASKY NAME / 10 * 0 /
162-1	DATA BIT, BITT, BITT, BITTS, BITTS, BITTS, BITTS, BITTS, BITTS
	+/0,0,1,2,3,4,5,14,0,6/
<del>163=1</del>	PATA BIT10, BIT11, BIT12, BIT13, BIT14, BIT13, BIT16, BIT17
<del></del>	+/7,8,0,7,8,9,10,11/
164-1	DATA BIT20, BIT21, BIT22, BIT23, BIT24; BIT23, BIT26, BIT27
	+/3,4,5,10,11,12,13,1/
<del>165=1</del>	DATA BIT30, BIT31, BIT32, BIT33, BIT34, BIT35, BIT36, BIT37
	+/4,14,13,6,13,0,0,0/
166-1	DATA DITAG, BITAI, DITAZ, DITAS, DITAA, DITAS, BITAG, DITAT/ONO/
167-1	DATA 81'19,81729,81739,81749,81718,81728,81738,81748
<del></del>	+/2,3,4,12,1,2,0,0/
166-1	DATA DEGINI, BEGINS, BEGINS, BLGINA, BEGINS, BEGINS, BEGINS
4 ( 27)	+/7,10,1,8,7,1,1/
167-1	DATA BEONS, BEON10, BEON11, BEON12, BEON13, BEON14, BECN15
4-74-3	+/14,5,4+0,10/
170=1	DATA WIDTH1, WIDTH2, WIDTH3, WIDTH4, WIDTH3, WIDTH5, WIDTH7
171=1	+/3,4,6,3,5,6,4/
	+/2, 2, 4x0, 4/
172-1	DATA BEGINS, BEGNIS, WIDTHS, WIDTIS, JCARDS, JCARIS
1/2=1	+714,0,2,0,2,0/
-1 173=1	DATA JCARDI, JCARDZ, JCARD3, JCARD4, JCARD5, JCARD6, JCARD7
1/3=1	+/3,3,1,2,1,2,3/
174=1	DATA JCARY, JCARIO, JCARII, JCARIZ, JCARIZ, JCARIA, JCARIA
1/4-1 	+/3,3,4x0,2/
<del>175=1</del>	#7 31 31 4×01 27 BATA BG1 1 DG2 1 DG3 1 DG4 1 DG5 1 DG6 1 DG7 1 DG6 1 DG7 1 DG6 1 DG7 1 DG6 1 DG7 1 DG
	+ <del>/10,172,17,164,9,10,160,17,2,74/</del>
176=1	DATA B011, D012, B013, B014, B015, B016, B017, B018, B019, D020
	+/49+10+164+196+9+10+164+196+12+12/
177=1	
178-1	DATA D026, D027, D028, B029, B030/2, 31, 64, 128, 240/
17~-1	DATA WIDTH, BEDIN, END, RMASK, I, K/6#0/
190-1	BATA MSSF, TSSF, GUSF, DKNFSF, POSCSF, INDESF/6#. FALSE./
181-1	BATA HEOTSHILBCUSHILLERPSHILLSHSFSFILHCRSHITSHIFALSEI/
	The second secon

DATA LOSPOST, PIREST, 78% FALSE. / #=! DATA LOSPOST, PROSEST, 78% SET, 78% SET, 78% FALSE. / DATA SISCST, 52% SET, 78% SET, 78% SET, 78% SET, 78% SET, 78% IDATA LOSSEST, 58% SET, 58% SET, 78% IDATA LOSSEST, 58% SET, 78% SET, 78% IDATA REPORT, 56% FIRE VST, FEBPST, FOUNDST, 78% FALSE. / DATA ARDST, 58% SET, FIRE VST, FEBPST, FOUNDST, 78% FALSE. / DATA ARDST, 58% SET, 58% SET, 78% SET, 18%	FYZ#.FALSE./ F.F.SSCSF.PASCSF.PSSCSF/5*.FALSE./ F.SSCSF.SASCSF.SSSCSF/5*.FALSE./ F.SSCSF.SASCSF.SSSCSF/5*.FALSE./ F.HVSVSF.HCSVSF/4*.FALSE./ F.HVSVSF.HCSVSF.PASCSF.SSSCSF/5*.FALSE./ F.HVSVSF.FEDPSF.PDCSSF/5*.FALSE./ F.STRNS.INTIAL.SFTINP75*.FALSE./ F.PMHSF.DHMISF.SHMIRSF.STMLSF/5*.FALSE./ F.FNCISF.PHMISF.SHMIRSF.STMLSF/5*.FALSE./ F.FNCISF.PHMISF.SHMISF.STMLSF/5*.FALSE./ F.RENTRY/3*.FALSE./ FSGPM.FIZGPM.FTIME.NCLTCH/6*.FALSE./ FRENTRY/3*.FALSE./ FSGPM.FIZGPM.FTIME.NCLTCH/6*.FALSE./ APMSF.ASSF.ASMSF.AFMSF.ASWSF/7*.FALSE./ APMSF.ASSSF.ASMSF.AFMSF.AFMSF.ASWSF/7*.FALSE./ APMSF.ASSSF.ASMSF.AFMSF.AFMSF.ASWSF/7*.FALSE./ APMSF.ASSSF.ASMSF.AFMSF.AFMSF.ASWSF/7*.FALSE./ APMSF.ASSSF.ASMSF.AFMSF.AFMSF.ASWSF/7*.FALSE./ APMSF.ASSSF.ASMSG.NSUSMG  SEA.PARK.NTRAL.REVRSE.DRIVE.HIGH.LOW TOZ4.ZO4S.512.16.3Z/ TEST3.HYBPSS.HYNBPS.ENGNUN.ENGMSB/3*0.96.U.O  TP.CKPLST.CKRLST/Z*0.11.Z45/6/ T.CKRSLZ/U.O.16334/ FP.TASMSP.TAFSSP.TASSSP.TAFWSP.TASWSP/7*0/ F.CKRDLY.DIDGS.PUTDGS.PTDGS/Z*0.50.3*0/ F.TASMSP.TAFSSP.TASSSP.ASSSP.ASSSP.ASSSP.ASSSP.ASSSP.ASSSP.ASSSP.ASSSP.ASSSP.ASSSP.ASSSP.ASSSP.ASSSP.ASSSP.O.O/ TASTAVV.SFTVV/4*0/ TASTAVA.AUXS.DHMSR.DTRNR.PAMTPR/6*0.0/ TASTAVY.SPTTTGFT/A*0.0.2.5S7.0.0/ TASTAVT.SUTFP.DESMJ/6*0.0/ TASTATV.SDFPT.SUTFP.TASO.0/ TASTATV.SDFPT.SUTFP.TASO.0/ TASTATV.SDFPT.TAST.TASTAVO.0/ TASTATV.SDFPT.TAST.TASTAVO.0/ TASTATV.SDFPT.TAST.TASTAVO.0/ TASTATT.TASTATVAST.AUXPAST.OO/ TASTASP.TASTSP/4*0.0/ TASTATT.TASTATVAST.AUXPAST.OO/ TASTASP.TASTSP/4*0.0/ TASTASP.TASTSP/4*0.0/ TASTASP.TASTSP/4*0.0/ TASTASP.TASTSP/4*0.0/ TASTASP.TASTSP/4*0.0/ TASTASP.TASTSP/4*0.0/ TASTASP.TASTSP/ASO.0/ TASTASP.TASTSP/ASO.0/ TASTASP.TASTSP/ASO.0/ TASTASP.TASTSP/ASO.0/ TASTASP.TASTSP/ASO.0/ TASTASP.TASTSP/ASO.0/ TASTATVASTATUTE.TASTATUTE.TASTATUTE.TASTATUTE.TASTATUTE.TASTATUTE.TASTATUTE.TASTATUTE.TASTATUTE.TASTATUTE.TASTATUTE.TASTATUTE.TASTATUT		·
### DATH PISCSF:P2SCSF:P3SCSF:P4SCSF:P5SCSF/5*:FALSE./ ### DATH SISCSF:S2SCSF:S3SCSF:S3SCSF/5*:FALSE./ ### DATH ALDSVSF:LCSVSF:HDVSF:FEBPSF:P0CSSF/5*:FALSE./ ### DATH ALDSVSF:LCSVSF:HDVSF:FEBPSF:P0CSSF/5*:FALSE./ ### DATH ALDSSF:SEWFSF:HDVSF:FEBPSF:P0CSSF/5*:FALSE./ ### DATH ALDSSF:SEWFSF:HDVSF:FEBPSF:P0CSSF/5*:FALSE./ ### DATH ALDSSF:SEWFSF:HDVSF:FEBPSF:P0CSSF/5*:FALSE./ ### DATH ALDSSF:SEWFSF:HDWSF:DHMISSF:DHMISSF:DHMISSF:PALSE./ ### DATH ALDSSE:PSEWFSF:PDCSF:PFHCSF:FALSE./ ### DATH ALDSSE:PSEWFSF:PHMSF:SHDTSF:PSEWF:PALSE./ ### DATH ALDSSE:PSEWFSF:PMSCSF:PFHCSF:SHDTSF:PSEWF:PSEWF./ ### DATH ALDSSE:PSEWFSF:PMSCSF:PFHCSF:PSEWF./ ### DATH ALDSSE:PSEWFSSF:AMSSF:AMSSF:AMSSF:AMSSF:AMSSF:PALSE./ ### DATH ALDSSE:PSEWFS:PMSSF:AMSSF:AMSSF:AMSSF:AMSSF:PALSE./ ### DATH ALDSSE:PSEWFS:PMSSF:AMSSF:AMSSF:AMSSF:PALSE./ ### DATH ALDSSE:PSEWFS:DHMISSF:IDMMISSF:AMSSF:AMSSF:PALSE./ ### DATH ALDSSE:PSEWFS:BOMM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:FIGOPM:F	F, P3SCSF, P4SCSF, P3SCSF, 75%. FALSE. / F, F, S3SCSF, S4SCSF, S5SCSF, 75%. FALSE. / F, HUSPSF, HCSGF, 75%. FALSE. / F, HUSPSF, FEBPSF, PGCSSF, FALSE. / F, HUSPSF, LBMTSF, DJMTMSF, DJTMTSF, FALSE. / F, FMMSF, DJMTSF, DJMTMSF, DJTMTSF, FALSE. / F, FENCISF, PFMLSF, SFMHSF, SFMLSF, 76%. FALSE. / F, FENCISF, PFMLSF, SFMHSF, SFMLSF, 76%. FALSE. / F, FENCISF, PFMLSF, SFMTSF, SFMLSF, 76%. FALSE. / F, FENCISF, PFMLSF, SFMTSF, SFMLSF, 76%. FALSE. / F, FENCISF, PFMLSF, SFMTSF, ASWSF, 78%. FALSE. / FSGPM, F12GPM, FTIME, NCLTCH/6%. FALSE. / FSGPM, FALSE. / FSGPM, NCLTCH/6%. FALSE. / FSGPM, FALSE. / FSGPM, FTIME, FTIME, NCLTCH/6%. FALSE. / FSGPM, FTIME, PHOTEM, SHOTEM, FSGPM, FALSE. / FSGPM, FTIME, PHOTEM, SHOTEM, FSG, 0.7 FNICHMSP, FNITG. ADX9, AUXTO, 480, 0.0, 136, 0.9 FNITGHMSP, FNITG. ADX9, AUXTO, 480, 0.0, 136, 0.9 FNITGHMSP, TREP, FREPST/3%0.0, 25, 0.0 FNIPSP, TREP, FREPST/3%0.0, 25, 0.0 FNIPSP, TREP, SEPST/3%0.0, 25, 0.0 FNIPSP, TREP, SEPST/3%0.0, 25, 0.0 FNIPSP, TREP, SEPST/3%0.0, 25, 0.0 FNIPSP, TREP, DES/5%0.0 FNIPSP, TREP, DES/5%0.0 FNIPSP, TREP, SEPSP/3%0.0, 25, 0.0 FNIPSP, TREP, SEPSP/3%0.0, 25, 0.0 FNIPSP, TREP, DES/5%0.0 FNIPSP, TREP, SEPMPR/44%0.0 FNIPSP, MAXMSP, AUXTO, TRESMSP/2%0.0, 25, 3%0.0 FNIPSP, MAXMSP, AUXTO, TRESMSP/2%0.0 FNIPSP, MAXMSP, AUXTO, TRESMSP/2%0.0 FNIPSP, MAXMSP, TREP, SEMPR/44%0.0 FNIPSPMPR/44%0.0 FNIPSPMPR/5MMRR. FMMRR/44%0.0 FNIPSPMPR/5MMRR/5MMRR/SMMRR/SMMRR/SMMRR/SMMRR/SMMRR/SMM	82=1	DATA LSCPSF, HFBPSF, LEOPSF, LPHLSF, LSHLSF/5*. FALSE./
DATH SISCSH. \$25CSH. \$35CSH. \$35CSF. \$4. FAI.SE. 7	F, S3SCSF, S4SCSF, S\$SCSF/5*. FALSE. / F, HDSVSF, HCSVSF/74*. FALSE. / F, HDSVSF, FEBSF, PGCSSF/5*. FALSE. / F, HDBVSF, FEBSF, PGCSSF/5*. FALSE. / F, SCITRNS, INTIAL, SFTINP/5*. FALSE. / F, SCITRNS, INTIAL, SFTINPF, SPMISF/6*. FALSE. / F, SENTRY/3*. FALSE. / FSCHM.F, PFMISF, SFMISF, SFMISF, FALSE. / FSCHM.F12GPH, FTIME: NCLTCH/6*. FALSE. / FROMEN: 12GPH, FTIME: NCLTCH/6*. FALSE. / FROMEN: 12GPH, FTIME: NCLTCH/6*. FALSE. / FROMEN: 12GPH, FTIME: NCLTCH/6*. FALSE. / FROMEN: 13SSF, ASMSF, APWSF, ASWSF/7*. FALSE. / FROMEN: 10HMSF, IDMMSR, IPMMSR, IPFMPR/6*O/ FROMEN: 10HMSF, IDMMSR, IDMMSR, IDMMSR/6*O/ FROMEN: 10HMSF, NSUSMG  SEA. PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW 1024, 2048, 512, 16, 32/ TEST3, HYEPSS, HYNBPS, ENGNON, ENGMSD/3*O, 96.0, 0  FP, CKPLST, CKKLST/2*O, 11, 245/6/ TI, CKRSLZ/U, O, 16384/ FP, TASMSP, TAPSSP, TAPWSP, TASWSP/7*O/ F, TASMSP, TAPSSP, TAPSSP, TAPWSP, TASWSP/7*O/ F, TARMSP, TABMSP, TABMSS, PTDGS/Z*O, 50, 3*O/ F, DROUDS, PDMODS, PTDDGS, PTDGS/Z*O, 50, 3*O/ F, DROUDS, PDMODS, PTDDGS, PTDGS/Z*O, 50, 3*O/ F, DROUDS, PDMODS, PCFWBP, BLGUFF, SLDWER/50, 0, 30, 3*O/ F, DATOV, STDV/4*O/ F, SARTPR, ENCYPHSP, BLGUFF, SLDWER/50, 0, 30, 3*O/ F, DATOV, STDV/4*O/ F, SARTPR, ENCYPHSP, BLGUFF, SLDWER/50, 0, 30, 3*O/ F, SARTPR, ENCYPHSP, DRMSR, DTRNR, PAMTPR/6*O. 0/ F, SAMTPR, ENCYPHSP, BLGUFF, SLDWER/F, SO, 0/ F, SAMTPR, ENCYPHSP, BLGUFF, SCO, 0/ F, SAMTPR, ENCYPHSP, BLGUFF, SCO, 0/ F, SAMTPR, ENCYPHSP, BLSMSP/2*O, 0/ F, SAMTPR, SPPT/2*O, 0, 85, 0, 0/ F, SAMTPR, BCPT/2*O, 0, 85, 0, 0/ F, SAMTPR, BCPT/2*O, 0, 85, 0, 0/ F, SAMTPR, BCPT/2*O, 0, 85, 0, 0/ F, MAXMSP, TREP, DES/3*O, 0, 95, 0, 0/ F, MAXMSP, TREP, DES/3*O, 0/ F, SAMPR, PFMPR, SPMPR/44*O, 0/ F, SAMPR, FFMPR, SPMPR/	4	
DATA LUSUSE, LUSUSE, HUSUSE, HUSUSE, FALSE,	F, HVSVSF, HCSVSF/4*. FALSE./ F, HDFVSF, FEBFSF, PDCSSF/3*. FALSE./ FS, SLITRNS, INITAL, SFITNP75*. FALSE./ FS, DHMRSF, DHMLSF, DHMRSF, DTRNSF/6*. FALSE./ FS, FPHMSF, PHMLSF, SHUTSF, STMLSF/6*. FALSE./ FS, FRENTRY/3*. FALSE./ FS, FRENT, IPHOTM, ISHOTM, IPTRNR/6*0/ FS, IDGOUT, SUSMSG, NSUSMG  SEA. PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW TO24, 2043, 512, 16, 32/ TTEST3, FIVEPSS, HYNBPS, ENGNON, ENGMSD/3*0, 96, 0, 0  FF, CKPLST, CKRLST/2*0, 11, 245/6/ IT, CKRSLZ/0, 0, 16394/ FS, TASMSP, TAPSSP, TASSSP, TAPWSP, TASWSP/7*0/ F, EKRDLY, DTDGS, PUTDGS, PTDGS/2*0, 50, 3*0/ F, EKRDLY, DTDGS, PUTDGS, PTDGS/2*0, 50, 3*0/ F, ERRDLY, DTDGS, PUTDGS, PTDGS/2*0, 50, 3*0/ F, ERRDLY, DTDGS, PUTDGS, PTDGS/2*0, 50, 3*0/ F, TAROPEN, PCFWBP, BLGOFF, SLOWER/50, 0, 30, 3*0, 2/ F, TAROVA, AUXS, AUXS, AUXS, AUXT, AUXS, TDES/7*0/ FSSTOVYSFTOV/4*0/ DX3, AUXS, AUXS, AUXS, AUXT, AUXS, TDES/7*0/ FSSS, RESS, RESS, 5*0/ FO/ ANT DHMSP, DHMSR, DTRNR, PAMTPR/5*0.0/ FR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6*0.0/ TOPHMSP, PNTIG, AUXS, AUXTO/4*0, 0, 0, 136, 0.** TOPHMSP, TREPT/2*0.0, .SS, 0.0/ TOPHMSP, TREPT, REPST/3*0.0, .9S, 0.0/ TAPSSP, ASSSP/4*0.0/ TAPSSP, ASSSP/4*0.0/ TAPSSP, ASSSP/4*0.0/ TAPSSP, ASSSP/4*0.0/ TAPSSP, AUXS, AUXTO/4*0, 0, 0, 55, 0.0/ TAPSSP, ASSSP/4*0.0/ TAPSSP, AUXS, AUXTO, THRNPOM, TORRUE/6*0, 0/ TAPSSP, AUXS, AUXTO, THRNPOM, TORRUE/6*0, 0/ TAPSSP, AUXS, AUXTO, THRNPOM, TORRUE/6*0, 0/ TAPSSP, AUXSSP, AUXDOM, TRINPOM, TORRUE/6*0, 0/ TAPSSP, AUXSSP, AUXDOM, TRINPOM, TORRUE/6*0, 0/ TAPSSP, A		
### DATH AERPS*, SEMPS*, TIDPOS*, TERPS*, PGCSS*/5*, FALSE./ #### DATH ARCHS*, LISTRNS*, INTIALS*, FTINPS*, FALSE./ ####################################	F. HIBPOSP, FEBPSP, PGCSSF/5*, FALSE./ IS, SITHNIS, INTIAL, SPTINP/5*, FALSE./ IS, SITHNIS, INTIAL, SPTINP/5*, FALSE./ IS, PFMRSF, DHRISF, DHRISF, DTRINSF/6*, FALSE./ IS, PFMRSF, PFMLSF, SFMHSF, SFMLSF/6*, FALSE./ IS, PFMRSF, PFMLSF, SFMLSF/5*, FALSE./ IS, RENCISF, PFMLSF, SFMLSF/5*, FALSE./ FSGPM, FI2GPM, FTIME, NCLTCH/6*, FALSE./ APMSF, ASSSF, ASMSF, APWSF, ASWSF/7*, FALSE./ APMSF, TAPHOTM, ISHOTM, IDTRINR/6*0/ IDGOUT, SUSMSG, NSUSMG  SEA, FARK, NTRAL, REVRSE, DRIVE, HIGH, LOW 1024, 2048, 512, 16, 32/ TEST3, HYBPSS, HYNBPS, ENUNUN, ENGMISIZ/3*0, 98, 0, 0  IP, CKPLST, CKRLST/2*0, 11, 245/6/ 11, CKRSL2/0, 0, 16384/ IP, ISSSF, IAPSSP, IASSSP, IAPWSP, IASWSP/7*0/ PF, IASMSP, IAPSSP, IASSSP, IAPWSP, IASWSP/7*0/ PF, BEGPON/3*0/ TO, DHOOP, PDMOOP/4*0/ PF, BEGPON/3*0/ AND THE AND THE AND THE ASMST AND THE ASMS AND THE ASSS AND TH		
DATA RCLSST.LSIRNS.SUTRNS.UNITAL.SFTINDF/SF.ALSE./   SOME  DATA APBUSF.ASBUSF.UHMRSF.UHMRSF.UHMRSF.ATTRNSF/6%.FALSE./   DATA PANNSF.SAMUSF.SENGISF.PHUISF.SEMISF.SFMISF.SFMISE./   STAMUSF.SAMUSF.SAMUSF.FENGISF.PHUISF.SEMISF.SFMISE./   STAMUSF.SAMUSF.SAMUSF.FENGISF.PHUISF.SEMISF.ASSF.ASSE./   DATA MOPPOLITILSF.FENGISF.PHUISF.SEMISF.ASSE./   DATA MOPPOLITILSF.FENGISF.ASSF.ASSE.ASSE.ASSF.ASSF.ASSF.ASSF.AS	IS, SETRNS, INTIAL, SFTINP/S*, FALSE./ F. DIMMISF, DIMMISF, DIMMISF, DIMMISF/S*, FALSE./ SF, PRIMISF, SPMISF, SPMISF, SPMISE, SPMISE, SPMISE./ SF, ENCISF, PMUISF, SHUTSF, SPMISE, FALSE./ SF, ENCISF, PMUISF, SHUTSF, SFMISE./ SF, ENCISF, PMUISF, SHUTSF, SFMISE./ SF, ENCIY, 3*, FALSE./ SF SRPM, FIZGPM, FTIME, NCLTCH76*, FALSE./ APMSF, ASSSF, ASMSF, APWSF, ASWSF/7*, FALSE./ APMSF, ASSSF, ASMSF, APWSF, ASWSF/7*, FALSE./ ARICHMENT, IDHMSK, IPMPK, IPFMPK/S*O/ INDIGUT, SUSMISG, NSUSMIG.  SEA, PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW TO24, 204S, 512, 16, 32/ TEST3, FRYSPSS, HYNBPS, ENGNUN, ENGMISIC/3*O, 96, 0, 0  MP, CKPLST, CKRLST/2*O, 11, 245/6/ IT, CKRSL2/O, 0, 16334/ SP, TASMSP, TAPSSP, TAPSSP, TAPWSP, TASWSP/7*O/ PF, TASMSP, TAPSSP, IASSSP, TAPWSP, TASWSP/7*O/ PF, ERRDLY, DIDGS, PTDGS, PTDGS/2*O, 50, 380/ KTDMOOP, PDMOOP/4*O/ UP, DLGPON/3*O/ TOCHTS, SROPEN, PCFWBP, DLGOFF, SLDWER/50, 0, 30, 3*O, 2/ JACKY, STVV/4*O/ JX3, AUX5, AUX5, AUX5, AUX7, AUXS, IDES/7*O/ JX3, AUX5, AUX5, AUX5, AUX7, AUXS, IDES/7*O/ JX3, AUX5, AUX5, AUX5, AUX7, AUXS, IDES/7*O/ SSS, RPSS, RES/5*O/ FOR SAMTPR, ENCIEM, PHOTEM, SHUTEM/6*O. 0/ TOLHMSP, DRMSR, DTRNR, PAMTPR/6*O. 0/ TOLHMSP, PSWSP, INTERFT/3*O, 0, 25, 37, 0, 0, -0, 4/ ENSP, PMDIS, PMDFP/3*O, 0/ STREFF, REPT/2*O, 0, 85, 0, 0/ TAPSSP, ASSSP/4*O, 0/ REPPF, PRIMEF, REPSP/3*O, 0, 95, 0, 0/ TASMSS, AUX5, FUES/5*O, 0/ REPPF, REPP, ALPMSP, ALSMSP/2*O, 0, 95, 3*O, 0/ TASMSS, AUX5, FUES/5*O, 0/ REPPF, REPP, ALPMSP, ALSMSP/2*O, 0, 95, 3*O, 0/ TASMSS, AUX5, KIO/O, 18, -0, 36, 1, 25, 0, 7575  STREFF, REPP, ALPMSP, ALSMSP/2*O, 0, 95, 3*O, 0/ TASMSP, AUSSSP/ARD, TRNPOW, TORRUE/6*O, 0/ TASMSP, AUXSSP, AUXDOW, TRNPOW, TORRUE/6*O, 0/ TASMSP, PMPR, SPMPR/44*O, 0/	122 7	
DATA PRIST, ASDEST, DRMIST, DRMIST, DIRMST, DIRMST/OF, FALSE, /   POPEL   DATA PAMIST, PAMIST, PRINTS, SPMIST, SPMIST, SPMIST, SPMIST, SPMISE, /   SPMIST, SAMIST, SAMIST, SHUTST, SHUTST, SFMIST, SPMIST, SPMIST, SPMIST, SPMIST, SAMIST, SAMIST, SAMIST, SHUTST, S	F, DHMHSF, DHMLSF, DHMRSF, DTRNSF/6*.FALSE./ DF, PHONSF, PHOUSF, SHOUSF, SHUSE/7 F, ENCISF, PHOUSF, SHOUSF, SHEEL/ DF, RENTRY/3*.FALSE./ FROMH, F12GPM, FTIME, NCLTCH/6*.FALSE./ RAMSF, ASSSF, ASMSF, APWSF, ASWSF/7*.FALSE./ N, IDHMSP, IDHMSR, IPMMPR, IPMMPR/6*O/ R, IENCTM, IPHOTM, ISHOTM, IDTRNR/6*O/ R, DIGOUT, SUSMSG, NSUSMG  SEA, PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW 1024, 2048, 512, 16, 32/ TEST3, HYBPSS, HYNBPS, ENGNUN, ENGMSG/3*O, 96, U, O  PP, CKPLST, CKRLST/2*O, 11, 245/6/ 11, CKRSL27U, U, 16334/ PP, IASMSP, IASSSP, IASMSP, IASMSP/7*O/ PP, CKRDLY, DIDGS, PUTDGS, PTDGS/2*O, 50, 3*O/ PP, DEGON/3*O/ PP, DEGON/3*O/ PP, DEGON/3*O/ PP, DEGON/3*O/ PP, DEGON/3*O/ PP, DEGON/3*O/ PROTE, TRANSPUN, MSPON, TRKSTP, SURISE/300, 4*O, 50, 0/ PSSATVV-SFTVV/4*O/ DSS, RPSS, RES/5*O/ PO/ PR, SAMTPR, ENCTEM, PHOTEM, PHOTEM/6*O, O/ PR, SAMTPR, ENCTEM, PHOTEM, SHOTEM/6*O, O/ PROMHSP, DHMSR, DTRNR, PAMTPR/5*O, O/ PR, SAMTPR, ENCTEM, PHOTEM, SHOTEM/6*O, O/ PROMHSP, PMDIS, PMDFP/5*O, O/ PROMHSP, TREFF, REPST/3*O, O, SS, O, U/ PPPH, PPMEFF, REPST/3*O, O, SS, O, U/ PPPHD, DSFRT, SDIFP, DESWJ/6*O, O/ PPPHD, DSFRT, SDIFP, DESMSP/2*O, O, PS, 3*O, O/ PPPHD, DSFRT, SDIFP, DRSWJ/6*O, O/ PPPHD, PPMEFF, REPSP/3*O, O/ PPHEFF, REPP, ALEMBP, DRSWJ/6*O, O/ PPPHEFF, REPP, ALEMBP, DRSWJ/6*O, O/ PPPHEFF, REPP, ALEMBP, DRSWJ/6*O, O/ PPPHEFF, REPP, ALEMBP, PLEMBP, DRSWJ/6*O, O/ PPPHEF		
DATA PAMMSF.PAMLSF.PENLISF.PHUTSF.SHUTSF.SHUTSF.SHUTSF.SHUTSF.SHUTSF.SHUTSF.SHUTSF.SHUTSF.SHUTSF.SHUTSF.SHUTSF.SHUTSF.SHUTSF.SHUTSF.SHUTSF.SHUTSF.SHUTSF.SHUTSF.SHUTSF.SS.F.ARSE.7   DATA MODPOL.HLTSSF.MEN.RY/3%.FALSE.7   DATA MOPON.FAGPM.FSGPM.F120PM.F11ME.NCLTCH/6%.FALSE.7   DATA LAPSS.ARSS.ARSSF.ARMSF.ARMSF.ARMSF.ARMSF.ASSF.7%.FALSE.7   DATA TAPBON.TASBON.TOHMSP.TDHMSR.TPAMPR.TASBF.ASSF.7%.FALSE.7   DATA TAPBON.TASBON.TOHMSP.TDHMSR.TPAMPR.TASBF.ASSF.7%.FALSE.7   DATA TAPBON.TASBON.TOHMSP.TDHMSR.TPAMPR.TASBF.ASSF.7%.FALSE.7   DATA TAPBON.TASBON.TOHMSP.TDHMSR.TPAMPR.TOTHNR.6%07   199-1 DATA TAMD.TRINSTN.SEA.PARK.NTRAL.REVRSE.DRIVE.HIGH.LOW	######################################		
DATA SAMMSF. SAMMSF. ENCASF. PROTSF. 75%. FALSE. / 192=1 DATA MOUPCU.MLTSSF. RENTRY/3%. FALSE. / 194-1 DATA MOPAN. FASPM. FENTRY/3%. FALSE. / 195-1 DATA MENSE. APSSF. APMSF. ASSSF. ASMSF. ASMSF. ASSSF. / ASMSF. ASSSF. ASSST. ASSSF. ASSST. ASST. ASSST. ASSST. ASSST. ASSST. ASSST. ASSST. ASSST. ASSST. ASST. ASSST. ASST. ASSST. ASSS	F.ENCISF, PHUTSF, SHUTSF/5#. FALSE./  PF, REN'RY/3#. FALSE./  PFSGPM.FI2OPM, FTIME, NCLTCH/6#. PALSE./  APMSF, ASSSF, ASMSF, APWSF, ASWSF/7*. FALSE./  APMSF, ASSSF, ASMSF, APWSF, ASWSF/7*. FALSE./  ALIDHMSP, IDHMSR, PPMPR, IPPMPR/6#0/  R. IENCTM, IPHOTM, 13HOTM, IDTRNR/6#0/  I. DIGOUT, SUSMSG, NSUSMG  SEA, PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW  1024, 2048; 512, 16, 32/  TESTS, HYPPSS, HYNBPS, ENGNON, ENGMSG/3#0, 96, 0, 0  PF, CKPLST, CKKLST/2#0, 11, 245/6/  11, CKRSL2/0, 0, 16384/  PF, IASMSP, IAPSSP, IASSSP, IAPWSP, IASWSP/7*0/  7, ERRDLY, DIDGS, PDTDGS, PTDGS/2#0, 50, 3#0/  KI, DMOOP, PDMOOP/4#0/  PF, BLGPON/3#07  100TD, GROPEN, PCFWBP, BLGUFF, SLOWER/50, 0, 30, 3#0, 2/  7, DHCVV, MNSPDN, MSPDN, IRKSTP, SURISE/300, 4*0, 50, 0/  13A, AUX4, AUX5, AUX6, AUX7, AUX6, IDES/7*0/  SSS, RPSS, RES/5#0/  MO/  AND DHMSP, DHMSR, DTRNR, PAMTPR/6#0.07  PR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6#0.0/  1DDHMSP, PNIIG, AUX9, AUX9, AUX10/4#0, 0, 0, 186, 0, 9/  1DDHMSP, PNIIG, AUX9, AUX10/4#0, 0, 0, 186, 0, 9/  1DDHMSP, PNIIG, AUX9, AUX10/4#0, 0, 0, 186, 0, 9/  1DDHMSP, PNIIG, AUX9, AUX10/4#0, 0, 0, 186, 0, 9/  1DDHMSP, PNIIG, AUX9, AUX10/4#0, 0, 0, 186, 0, 9/  1DDHMSP, PNIEFP, REPSI/3#0, 0, 25, 0, 0/  1DPHSD, DSRRT, SDIFP, DPSWJ/6#0, 0/  1PPSSP, ASSSP/4#0, 0/  REPPP, PPMEFF, REPSI/3#0, 0, .95, 0, 0/  1PPSSP, ASSSP, AUXPOW, TRNPOW, TURRUE/6#0, 0/  1PPSSP, ASSSP, ASS		
DATA   MOUPOC.MLISSF.RENTRY/3*.FACSE./     DATA   ADMAN.F4GPM.F8GPM.F12GPM.F1IME.NCLTCH/6*.FALSE./     DATA   ADMS.F18PS.F.RAMSF.ASSF.ASMSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.ASWSF.AS	FYREN:RY/3*.FALSE./ F8GPM:F12GPM:FTIME;NCLTCH/6*.FALSE./ APMSF:ASSS:ASMSF;AFWSF;ASWSF/7*.FALSE./ APMSF:ASSS:ASMSF;AFWSF;ASWSF/7*.FALSE./ AN;IDHMSP;IDHMSR;IPAMPK;IPTMRY/6*0/ A;IDHMSP;IDHMSR;IPAMPK;IPTMRY/6*0/ A;IDIGUT;SUSMSG;NSUSMG  SEA.PARK;NTRAL;REVRSE;DRIVE;HIGH;LOW 1024,2048;512,16,32/ TEST3;FYDPSS;HYNDPS;ENGNUN;ENGMSG/3*0,96,0,0  AP;CKPLST;CKKLST/2*0,11,245/6/ 1;CKRSL2/0,0,16384/ BP;TASMSP;IAPSSP;TASSSP;TAPWSP;TASWSP/7*0/ 7;ERRDLY;DIDGS;PTDGS;PTDGS/2*0,50,3*0/ A;DMOOP;PDMOOP/4*0/ AP;DGPON/3*07 FGOTD;GROPEN;PCFWBP;BLGUFF;SLUWER/50,0,30,3*0,2/ 7,DHCVV;MNGPUN;MSPDN;TRKSTP;SURTSE/300,4*0,50,0/ SATVV;SFTVV/4*0/ JX3;AUX4;AUX5;AUX5;AUX7;AUXS;TDES/7*0/ SST,SSS;RES/5*0/ AN;DHMSP;DHMSR;DTRNR;PAMTPR/6*0.0/ AN;DHMSP;DHMSR;DTRNR;PAMTPR/6*0.0/ AN;DHMSP;DHMSR;DTRNR;PAMTPR/6*0.0/ AN;DHMSP;DRDF;P75*0.0/ AN;DHMSP;DSWSP;TNTCFT/4*0.0,2.537,0.0;-0.47 EDPPT;PMDF;SPDFP75*0.0/ APSSP;ASSSP/4*0.0/ APSSP/ASSSP/ASSP/ASSP/ASSP/ASSP/ASSP/A	T _	
DATA NOPAN, FAGPH, FSGPM, F11GPM, F11ME, NULTCH/G*, FALSE. // 19	FSGPM.FI2GPM.FTIME.NCLTCH/6*.FALSE./ APMSF.ASSSF.ASMSF.APMSF.ASMSF/7*.FALSE./ APMSF.ASSSF.ASMSF.ASMSF.ASMSF/7*.FALSE./ APMSF.ASSSF.ASMSR.IPAMPR.IPFMPR/6*O/ AR.IDHMSP.IDHMSR.IPAMPR.IPFMPR/6*O/ AR.IDHMSP.IDHMSR.IPAMPR.IPFMRR/6*O/ AR.IDHMSP.SUSMSG.NSUSMG  SEA.PARK.NTRAL.REVRSE.DRIVE.HIGH.LOW 1024.2043.512.16.32/ TEST3.HYBPSS.HYNBPS.ENGNUN.ENGMSG/3*O.96.0.0  AP.CKPLST.CKKLST/2*O.11.245/6/ IT.CKRSLZ/O.0.16384/ PR.IASMSP.IAPSSP.IASSSP.IAPMSP.IASMSP/7*O/ PR.IASMSP.IAPSSP.IASSSP.IAPMSP.IASMSP/7*O/ PR.DLGPON/3*O/ PR.DLGPON/3*O/ PR.DLGPON/3*O/ PR.DLGPON/3*O/ PR.DLGPON/3*O/ PR.DLGPON/3*O/ PR.DLGPON/3*O/ PR.SATVV.SFTVV/4*O/ JX3.AUX4.AUX5.AUX5.AUX7.AUX5.IDES/7%O/ SSS.RPSS.RES/5*O/ PO/ ANT.DHMSP.DHMSR.DTRNR.PAMTPR/6*O.O/ PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*O.O/ PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*O.O/ PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*O.O/ PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*O.O/ PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*O.O/ PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*O.O/ PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*O.O/ PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*O.O/ PR.SAMTPR.ENCTEM.PHOTEM.PHOTEM.SHUTEM/6*O.O/ PR.SAMTPR.ENCTEM.PHOTEM.PHOTEM.SHUTEM/6*O.O/ PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*O.O/ PREPP.PMBPF.REPST/3*O.O/ PREPP.REPP.APMSP.AUXO/A*O.O/ PREPP.PRPMEFF.REPSP/3*O.O/ PREPP.REPP.REPSP/3*O.O/ PREPP.REPP.REPSP/3*O.O/ PREPP.REPP.REPSP/3*O.O/ PREPP.REPP.REPSP/3*O.O/ PREPP.REPP.REPSP/3*O.O/ PREPPR.REPP.ALCHMSP.ALCHMSP/2*O.O/ PRAXMSP.AUXPOW.TRNPOW.TORUME/6*O.O/		
19 1 DATA AENST-NPSST-APMST-NSSST-APMST-ASUST/7*-TALSE./ 19:1 DATA 1APBCN.TASBCN.TDHMSP.TDHMSR.TPAMPR.TPFMPR/6*07/ 198=1 DATA 1SPMPR.TSAMPR.TENCTM.TPHOTM.TSHOTM.TDHMR/6*07/ 197=1 DATA TRIBLIR.DIGIN.DIGOUT.SUSMSG.NUSMSG. 195-1 DATA TRIBLIR.DIGIN.DIGOUT.SUSMSG.NUSMSG. 195-1 DATA TRIBLIR.DIGIN.DIGOUT.SUSMSG.NUSMSG. 195-1 DATA LAND.TRNSTN.SEA.PARK.NTRAL.REVRSE.DRIVE.HIGH.LOW 195-1 PATA LEND.TRNSTN.SEA.PARK.NTRAL.REVRSE.DRIVE.HIGH.LOW 195-1 DATA TESTI.TESTI.TESTI.TESTS.THYBPSS.THYNBPS.ENGNUN.ENGMSG/3*0.96.0 195-1 DATA TESTI.TESTI.TESTI.TERSTS.THYBPSS.THYNBPS.TANDN.TRNGWSG/3*0.96.0 195-1 DATA CKPSUT.CKRSLI.CKRSLZ/0.0.76334/ 201-1 DATA CKPSUT.CKRSLI.CKRSLZ/0.0.76334/ 202-1 DATA TARNSF.TAPMSP.TAPSSF.TASSSP.TAPWSP.TASWSP/7*0/ 203-1 DATA TREDIT.THER.DMNOP.PMDODP.PWSO.PTDGS.Z2*0.50.3*0/ 204-1 DATA TUELAY.TIMER.DMNOP.PMDODP.PWSO.PTDGS.Z2*0.50.3*0/ 204-1 DATA SUDGMN.TULCVV.DHCVV.MNOPUN.TMSPUN.TRKSTP.SURTSC/300.4*0/ 204-1 DATA SUDGMN.TULCVV.DHCVV.MNOPUN.TMSPUN.TRKSTP.SURTSC/300.4*0/ 204-1 DATA SUDGMN.TULCVV.DHCVV.MNOPUN.TMSPUN.TRKSTP.SURTSC/300.4*0/ 204-1 DATA PATVV.FTVV.SATVV/3*0/ 204-1 DATA AUXI.AUXI.AUXI.AUXI.AUXI.AUXI.AUXI.AUXI.	APMSF, ASSSF, ASMSF, APWSF, ASWSF/7*.FALSE./ N. IDHMSP, IDHMSR, IPAMPR, IPFMPR/8*0/ R. TENCTM, IPHOTM, ISHOTM, IDTMNR/6*0/ I. DIGOUT, SUSMSG, NSUSMG  SEA.PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW  1024, 2048, 512, 16, 32/  TESTS, HYBPSS, HYNBPS, ENGNON, ENGMSG/3*0, 96, 0, 0  PP, CKPLST, CKRLST/2*0, 11, 245/6/ II, CKRSL2/0, 0, 16334/ SP, IASMSP, IAPSSP, IASSSP, IAPWSP, IASWSP/7*0/ PP, ERRDLY, DIDGS, PDTDGS, PTDGS/2*0, 50, 3*0/ K, DMDOP, PDMODP/7*0/ MP, DLGPON/3*0/ MP, DLGPON/3*0/ MP, DLGPON/3*0/ MP, DLGPON/3*0/ MSPON/3*0/ MSPON/3*0/ MSPON/3*0/ MSPON/3*0/ MSPON/3*0/ MSPON/3*0/ MSSS, RPSS, RES/5*0/  *0/ ***SAMTV**, AUX5, AUX5, AUX7, AUXS, IDES/7*0/ ***SST, RPSS, RES/5*0/ ****O/ ****NO/*****O/ ****SAMTPR, ENCTEM, PHOTEM, SHOTEM/6*0.0/ ****CDAMSP, DRMSR, DTRNR, PAMTPR/6*0.0/ ****CDAMSP, DRMSR, DTRNR, PAMTPR/6*0.0/ ***CDAMSP, DRMSR, DTRNR, PAMTPR/6*0.0/ ****CDAMSP, DRMSR, DTRNR, PAMTPR/6*0.0/ ****CDAMSP, DRMSR, DTRNR, PAMTPR/6*0.0/ ****CDAMSP, PMDFP/3*0.0/ ****CDAMSP, PMDFP/3*0.0/ ****CDAMSP, PMDFP/3*0.0/ *****CDAMSP, REPT/2*0.0/ *****CDAMSP, PMDFP/3*0.0/ *****CDAMSP, PMDFP/3*0.0/ **********************************	7 . 7 . 7	
DATA IAPBCN. IASBCN. IDHMSP, IDHMSR, IPAMPR, IPFMPR/6*07  198-1 DATA ISPMPR, ISAMPR. IENCHM, IPMONTH, ISMOTH, IDMONTH, ISPMONTH, ISMOTH, IDMONTH, ISMOTH, IDMONTH, ISMOTH, IDMONTH, ISMOTH, IDMONTH, ISMOTH, IDMONTH, ISMOTH, IDMONTH, IDMONTH, ISMOTH, IDMONTH, IDMONTH	N. IDHMSP, IDHMSR, IPAMPR, IPFMPR/5*0/ R. IENCTM, IPHOTM, ISHOTM, IDTMNR/6*0/ R. DIGOUT, SUSMSG, NSUSMG  SEA, PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW  1024, 2048, 512, 16, 32/ TEST3, HYBPSS, HYNBPS, ENGNUN, ENGMSG/3*0, 96, 0, 0  PP, CKPLST, CKRCST/2*0, 11, 245/6/ I, CKRSL2/0, 0, 16334/ PP, IASMSP, IAPSSP, IASSSP, IAPWSP, IASWSP//*0/ PP, ERRDLY, DIDGS, PTDGGS/2*0, 50, 3*0/ K, DMOOP, PDMOOP/7*0/ VP, DLGPON/3*0/ VP, DLGPON/3*0/ VP, DLGPON/3*0/ VP, DLGPON/3*0/ VP, STTVY/4*0/ DX3, AUX4, AUX5, AUX5, AUX7, AUX8, IDES/79*0/ SSS, RPSS, RES/5*0/ **0/ AN, DHMSP, DRMSR, DTRNR, PAMTPR/6*0.0/ PR, SAMTPR, ENCIEM, PHOTEM, SHUTEM/6*0.0/ PR, SAMTPR, ENCIEM, PHOTEM, SHUTEM/6*0.0/ CDDHMSP, PNTIG, AUX9, AUX10/4*0.0, 0, 136, 0. 9; 1/ DPWSP, DSWSP, INTCPT/4*0.0, 2.58/, 0.0, -0, 4/ ENSP, PMDIS, PMDFP/5*0.0/ SSSP, FREPT/2*0.0, 85, 0.0/ SMDIS, SMDFP/4*0.0/ STREFF, REPT/2*0.0, 85, 0.0/ DPPWJ, DSFRT, SDIFP, DPSWJ/6*0.0/ DPPWJ, DSFRT, SDIFP, DPSWJ/6*0.0/ SPPMBTS, TREP, DES/5*0.0/ SPPMBTS, TREP, SPPMPR/44*0.0/ R, SAMPR, PMPR, SFMPR/44*0.0/ R, SAMPR, PMPR, SFMPR/44*0.0/		
DATA ISPMPR./SAMPR.TENCTM.IPHOTM.ISHOTM.IDTMNR/6*07 197-1 DATA TRNDIR.DIGIN.DIGOUT.SUSMISG.NSUSMISG. 1	R. TENCTM, IPHOTM, ISHOTM, IDTRNR/6*0/ I, DIGOUT, SUSMSG. NSUSMG.  SEA.PARK, NTRAL, REVRSE, DRIVE.HIGH.LOW  1024, 2048, 512, 16, 32/  TEST3. HYBPSS, HYNBPS, ENGNUN, ENGMSG/3*0, 96, 0, 0  IP, CKPLST, CKRLST/2*0, 11, 245/6/  I, CKRSL2/0, 0, 16334/  IP, IASMSP, IAPSSP, IASSSP, IAPWSP, IASWSP//*0/ I, ERRDLY, DIDGS, PDTDGS, PTDGS/2*0, 50, 3*0/ IP, DLGPON/3*0/ IP, DLGPON/3*0/ ISOTD, GROPEN, PCFWBP, BLGUFF, SLUWER/50, 0, 30, 3*0, 2/ I, DHCVV, MNSPUN, MSPUN, TRESTP, SURTSE/300, 4*0, 50, 0/ ISATVV, STTVV/4*0/ IX3, AUX4, AUX5, AUX7, AUX5, IDES/7*0/ IX3, AUX4, AUX5, AUX6, AUX7, AUX5, IDES/7*0/ IX3, AUX4, AUX5, AUX7, AUX5, IDES/7*0/ IX3, AUX4, AUX5, AUX7, AUX5, IDES/7*0/ IX3, AUX4, AUX5, AUX7, AUX5, IDES/7*0/ IX5, PRSS, RES/5*0/ IX6, AMTPR, ENCTEM, PHOTEM, SHUTEM/6*0.0/ INDHMSP, DRMSR, DTRNR, PAMTPR/6*0.0/ INDHMSP, DRMSP, INTCTT/4*0.0, 2.587, 0.0, -0.4/ INDPWSP, DSWSP, INTCTT/4*0.0, 2.587, 0.0, -0.4/ INSP, PMDIS, PMDFP/5*0.0/ INSP, PMDIS, PMDFP/5*0.0/ INSP, FREPT/2*0.0, .85, 0.0/ INSP, FREPT/2*0.0, .85, 0.0/ INSP, ASSSP/4*0.0/ INSP, REPP, ALPMSP, ALSMSP/2*0.0, .95, 3*0.0/ IPPMASSP, ASSSP/4*0.0/ INSP, REPP, ALPMSP, ALSMSP/2*0.0, .95, 3*0.0/ INSP, REPP, ALPMSP, ALSMSP/2*0.0, .95, 3*0.0/ INST, KG, KF, KB, F, KLOYO, 18; -0.86, 1.25, 0.7975 INSP, PMPR, PMPR, SFMPR/44*0.0/ INSAMPR, PMPR, SFMPR/44*0.0/ INSAMPR, PMPR, SFMPR/44*0.0/		
DATA TRNDIR, DIGIN, DIGUT, SUSMSG, NSUSMG  +/0,11*0,32763*07  DATA LAND, TRNSTN, SEA, PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW +/256,128,64,4096,1024,2048;512,16,327  DATA TESTI; TESTZ, TESTZ, HYDPSS, HYNBPS; ENGNON, ENGMSG/3*0,96,0 +/16384/  DATA TESTI; TESTZ, TESTS, HYDPSS, HYNBPS; ENGNON, ENGMSG/3*0,96,0 -/10 DATA CREDIMP, CKRAMPP, CKPLST, CKRLST/2*0,11,24576/  200=1 DATA CREDIMP, CKRAMPP, CKPLST, CKRLST/2*0,11,24576/  201=1 DATA TAENSP, TAPMSP, TASMSP, TAPSSP, TASSSP, TAPWSP, TASWSP/7*0/  203=1 DATA TAENSP, TAPMSP, TASMSP, TAPSSP, TASSSP, TAPWSP, TASWSP/7*0/  204=1 DATA TIMER, DHOOP, PEMDOP, PEMDOP, PEDGUS, PTOGS/2*0,50,3*0/  DATA SCHOOP, PCFHNP, DLGPON/3*0/  5*1 DATA SCHOOP, PCFHNP, DLGPON/3*0/  5*1 DATA SCHOOP, PCFHNP, DLGPON/3*0/  5*1 DATA SCHOOP, PCFNP, DLGPON/3*0/  1041 DATA SCHOOP, PCFNP, DLGPON/3*0/  204=1 DATA ADXI, NOVE, SATOV, SETOV/4*0/  204=1 DATA PANGAN, DLGPV, DHCVV, MINSPON, TRKSTP, SURTSCK/300, 4*0,  205=1 DATA PANGAN, RCSAN, DHMSP, DHMSR, DLGPON, AUXY, AUXS, TDES/796/  212=1 DATA APBCAN, ASBCAN, DHMSP, DHMSR, DTRNR, PAMTPR/6*0.0/  213=1 DATA PEMPR, SEMIPR, SAMTPR, ENCIEM, PHOTEM, SHUTEM/6*0.0/  213=1 DATA PEMPR, SEMIPR, SAMTPR, ENCIEM, PHOTEM, SHUTEM/6*0.0/  214=1 DATA PHORSP, DHMSR, DHMSP, DHMSP, DHMSP, AUXY, AUXY, AUX, O., 0, 186, C, 72, 72  214=1 DATA APPSCAN, SAMSPS, REPSP, PNITG, PUTA*0, 0, 2, 2587, 0.0, -0.4/  215=1 DATA PHORSP, DHMSR, DHSP, PNITG, SMIPP, PSO, 0, 0, 2, 587, 0.0/  215=1 DATA PHORSP, DSMSP, SEMSPP, PNITG, DPSWJ/6*0.0/  225=1 DATA PHORSP, DSMSP, SEMSPP, REPSP/3*0, 0, 95, 0, 0/  225=1 DATA PHORSP, ALSUSP, PANGAN, PPRPSP, PLSMSP/2*0.0, 95, 3, 0.0/  225=1 DATA PHOSP, PANGAN, PPRPSP, PROPP, SEMPSP, RESMSP/2*0.0, 95, 3, 0.0/  225=1 DATA PHOSP, PANGAN, PPRPSP, PRPSP, PRPSP, PROPS, PNICO, 18, -0, 8, 1, 25, 0, 7/97  225=1 DATA	#.DIGOUT.SUSMSG.NSUSMG  SEA.PARK.NTRAL, REVRSE.DRIVE.HIGH.LOW  1024,2048;512,16;327  TESTS.HYBPSS.HYNBPS.ENGNUN.ENGMSG73*0,96.0,0  PP.CKPLST.CKRLST72*0,11,245767  1.CKRSL270,0,163347  PP.TASMSP.TAPSSP.TASSSP.TAPWSP.TASWSP77*07  PP.TASMSP.TAPSSP.TASSSP.TAPWSP.TASWSP77*07  PP.TASMSP.TAPSSP.TASSSP.TAPWSP.TASWSP77*07  PP.TASMSP.TAPSSP.TASSSP.TAPWSP.TASWSP77*07  PP.TASMSP.TASSP.TASSSP.TAPWSP.TASWSP77*07  PP.TASMSP.TASSP.TASSSP.TAPWSP.TASWSP77*07  PR.TAMOOP.PDMODP74*07  PP.TAGOPEN.PCFWBP.BLGOFF.SLOWER/50,0,30,3*0,27  PP.TAGOPEN.PCFWBP.BLGOFF.SLOWER/50,0,30,3*0,27  PP.TAGOPEN.PCFWBP.BLGOFF.SLOWER/50,0,30,3*0,27  PR.TAMV.SFTVV/4*07  PR.SATVV.SFTVV/4*07  PR.SAMTVR.ENCTEM.PHOTEM.SHUTEM/6*0.07  PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*0.07  PP.TAMTSP.TASSP.TASSP.TASO.0,2587,0.0,=0.47  ENDPHSP.DSWSP.TNTCPT74*0.0,2.587,0.0,=0.47  ENDPHSP.PMIDIS.PMDFP75*0.07  REPPT.PTREFF.REPST/3*0.0,.95,0.07  PREPPT.PTREFF.REPST/3*0.0,.95,0.07  PREPPT.PTREFF.REPSP/3*0.0,.95,0.07  PP.MATMSP.TASSP.ALPMSP.ALSMSP/2*0.0,.95,3*0.07  PP.MATWSP.TACP.DES/5*0.07  R.SAMPR.PPMPR.SFMPR/44*0.07  R.SAMPR.PPMPR.SFMPR/44*0.07	:	
193=1	SEA, PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW 1024, 2048; 512, 16, 32/ TEST3, HYBPSS, HYBPS, ENGNON, ENGMSG/3*0, 96, 0, 0  PP, CKPLST, CKRLST/2*0, 11, 24576/ .I, CKRSL2/0, 0, 16384/ .IP, IASMSP, IAPSSP, IASSSP, IAPWSP, IASWSP/7*0/ .P, ERRDLY, DIDGS, PDTDGS, PTDGS/2*0, 50, 3*0/ .R, DMDOP, PDMODP/4*0/ .NP, DLGPON/3*0/ .GOTD, GROPEN, PCFWBP, BLGOFF, SLOWER/50, 0, 30, 3*0, 2/ .DHCVV, MNSPON, MSPON, TRKSTP, SURISE/300, 4*0, 50, 0/ .SATVV.SFTVV/4*0/ .DX3, AUX4, AUX5, AUX6, AUX7, AUXS, IDES/7*0/ .SSS, RPSS, RES/5*0/ .NN, DHMSP, DHMSR, DTRNR, PAMTPR/6*0.07 .CDHMSP, PNTIG, AUX9, AUX10/4*0.0, 0, 186, 0, 7, 1/ .DPMSP, DSWSP, INTCPT/4*0.0, 2, 587, 0, 0, -0, 4/ .SMPDIS, PMDFP/5*0.0/ .SMPDIS, SMDFP/4*0.0/ .STREFF, REPT/2*0.0, .85, 0.0/ .DPFWJ, DSFT, SDIFP, DPSWJ/6*0.0/ .APSSP, ASSSP/4*0.0/ .CEPPP, PPMEFF, REPSP/3*0.0, .95, 0.0/ .MAXMSP, TREP, DES/5*0.0/ .MAXMSP, TREP, DES/5*0.0/ .MAXMSP, TREP, DES/5*0.0/ .SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0, .95, 2*0.0/ .SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0, .95, 2*0.0/ .KS, K6, K7, K8, K9, K10/0.18, -0.36, 1.25, 0.7575 2, 3*0.0/ R, SAMPR, PFMPR, SPMPR/44*0.0/		
DATA LAND, TRNSTN, SEA, PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW #1/256, 123; 54, 4096, 1024, 2045; 512, 16, 327  1991 DATA TESTI, TESTZ, TESTS, FIYEPSS, HYNEPS, ENGNUN, ENGMSG/3#0, 96, U #163347  2001 DATA CKPSTI, CKRAMP, CKPLST, CKKLST/2#0, 11, 245/67  20121 DATA CKPST, CKRAMP, CKPLST, CKKLST/2#0, 11, 245/67  20121 DATA CKPST, TERMSD, IAPMSP, IASSP, IASSSP, IAPMSP, IASSSP/7*07  20221 DATA THENSP, IAPMSP, IASMSP, IAPSSP, IASSSP, IASSSP/7*07  20321 DATA THEST, PRINODP; ERRDLY, BIDUS, PDTDGS; 72*0, 50, 3*07  20321 DATA SECPOF, PCFWNP, DLGPON/3*07  5*1 DATA SECROTO, DLCVV, MINSPON, MBPON, TRKSTP, SURISE/300, 4*07  20321 DATA SUDGAN, DLCVV, DHCVV, MINSPON, TRKSTP, SURISE/300, 4*07  20321 DATA PATVV, PFTVV, SATVV, SFTVV/4*07  20321 DATA PATVV, STVV/2*07  20321 DATA RSMS, RPMS, RSSS, RPSS, RES/5*07  20321 DATA PROSAN, ASSECAN, DHMSP, DRMSR, DTRNR, PAMTPR/5*0.07  20321 DATA PDR, DSMSP, DDHMSP, DRMSR, DTRNR, PAMTPR/5*0.07  20321 DATA PDRS, DSMSP, DDHMSP, DNMSR, DTRNR, PAMTPR/5*0.07  20321 DATA DHMSP, DSMSP, DDHMSP, FMDTEM, SHUTEM/6*0.07  20321 DATA DHMSP, DRMSR, DPMSP, FMDTEM, AUX, AUX, AUX, AUX, AUX, AUX, AUX, AUX	1024,2045,512,16,32/ TEST3,HYBPSS,HYNBPS,ENGNON,ENGMSG/3*0,96,0,0  MP,CKPLST,CKKLST/2*0,11,245/6/ .T,CKRSL2/0,0,16384/ .P,TASMSP,TAPSSP,TASSSP,TAPWSP,TASWSP//*0/ .P,ERRDLY,DTDGS,PDTDGS,PTDGS/2*0,50,3*0/ .DMDOP,PDMODP/4*0/ .DGOTD,GROPEN,PCFWBP,BLGOFF,SLDWER/50,0,30,3*0,2/ .DHCVV,MN3PON,M3PON,TRKSTP,SURTSE/300,4*0,50,0/ .SATVV.SFTVV/4*0/ JX3,AUX4,AUX5,AUX6,AUX7,AUX3,TDES/7*0/ .SST,RPSS,RES/5*0/ *0/ AN,DHMSP,DHMSR,DTRNR,PAMTPR/6*0.0/ .CDHMSP,PNTIG,ADX9,AUX10/4*0.0,0.186,0.9/ .DPWSP,PNDSWSP,TNTCPT/4*0.0,2.58/,0.0,-0.4/ .DPWSP,PMDIS,PMDFP/5*0.0/ .REPPT,PTKEFF,REPST/3*0.0,.85,0.0/ .STREFF,REPT/2*0.0,.85,0.0/ .APSSP,ASSSP/4*0.0/ .REPPP,PPMEFF,REPSP/3*0.0,.95,0.0/ .APSSP,ASSSP/4*0.0/ .REPPP,PPMEFF,REPSP/3*0.0,.95,0.0/ .MAXMSP,TREP,DES/5*0.0/ .SPMEFF,REP,ALPMSP,ALSMSP/2*0.0,.95,3*0.0/ .MAXMSP,TREP,DES/5*0.0/ .RAXMSP,AUXPOW,TRNPOW,TURNUE/6*0.0/ .RASSP,AUXPOW,TRNPOW,TURNUE/6*0.0/ .RASSP,AUXPOW,TRNPOW,TURNUE/6*0.0/ .RASSP,AUXPOW,TRNPOW,TURNUE/6*0.0/ .RASSP,AUXPOW,TRNPOW,TURNUE/6*0.0/ .RASSP,AUXPOW,TRNPOW,TURNUE/6*0.0/ .RASSP,AUXPOW,TRNPOW,TURNUE/6*0.0/ .RASSP,AUXPOW,TRNPOW,TURNUE/6*0.0/ .RASSP,AUXPOW,TRNPOW,TURNUE/6*0.0/ .RASAMPR,PFMPR,SFMPR/44*0.0/		
### #7256,128,64,4096,1024,2048,512,16;32/ DATH   LESTI, TESTI, TESTIS, HYBPSS, HYBPSS, ENGNUN, ENGMSG/3*0,96:U   1,16364/ 200=1 DATH   CKPOMP, CKRAMP, CKPLST, CKRLST/2*0,11,245/6/ 201=1 DATH   TARDST, TAPMSP, TAPMSP, TAPSSP, TASSSP, TAPMSP, TASMSP/7*0/ 202=1 DATH   TARDSP, TAPMSP, TAPMSP, TAPSSP, TAPSSP, TAPMSP, TASMSP/7*0/ 203=1 DATH   TDELAY, TIMER, DMODP, PDMODP/4*0/ 204=1 DATH   TDELAY, TIMER, DMODP, PDMODP/4*0/ 204=1 DATH   SCCPOF, PCFWNP, DLGPON/3*0/   S#1 DATH   PCFWS, PCFWNP, SHOVY, STOVY, S	1024,2045,512,16,32/ TEST3,HYBPSS,HYNBPS,ENGNUN,ENGMSG/3*0,96,0,0  MP,CKPLST,CKKLST/2*0,11,245/6/ .T,CKRSL2/0,0,16384/ .P,TASMSP,TAPSSP,TASSSP,TAPWSP,TASWSP//*0/ .P,ERRDLY,DTDGS,PDTDGS,PTDGS/2*0,50,3*0/ .DMDOP,PDMODP/4*0/ .DGOTD,GROPEN,PCFWBP,BLGOFF,SLDWER/50,0,30,3*0,2/ .DHCVV,MN3PON,M3PON,TRKSTP,SURTSE/300,4*0,50,0/ .SATVV.SFTVV/4*0/ JX3,AUX4,AUX5,AUX6,AUX7,AUX6,TDES/7*0/ .SST,RSS,RES/5*0/ *0/ AN,DHMSP,DHMSR,DTRNR,PAMTPR/6*0.0/ .PR,SAMTPR,ENCTEM,PHOTEM,SHUTEM/6*0.0/ .DPWSP,DSWSP,TNTCPT/4*0.0,2.58/,0.0,-0.4/ .DPWSP,DSWSP,TNTCPT/4*0.0,2.58/,0.0,-0.4/ .SMSP,FMDIS,PMDFP/5*0.0/ .SPPT,PMDIS,PMDFP/5*0.0/ .STREFF,REPT/2*0.0,.85,0.0/ .BPPJJ,DSFRT,SDIFF,DPSWJ/6*0.0/ .APSSP,ASSSP/4*0.0/ .REPPP,PPMEFF,REPSP/3*0.0,.95,0.0/ .MAXMSP,TREP,DES/5*0.0/ .SPMEFF,REP,ALPMSP,ALSMSP/2*0.0,.95,3*0.0/ .MAXMSP,TREP,DES/5*0.0/ .RSP,MAXWSP,AUXPOM,TRNPOW,TORWUE/6*0.0/ .KS,K6,K7,K8,K9,K10/0.18,-0.36,1.25,0.7575 2,3*0.0/ .RSAMPR,PFMPR,SFMPR/44*0.0/		
DATA TESTI, TEST2, TEST3, FIYBPSS, HYNBPS, ENGNON, ENGMSG/3#0, 96, 10  1 + 1, 163847  201=1 DATA CKPOMP, CKRAMP, CKPLST, CKRCST/2#0, 11, 245/6/ 201=1 DATA CKPSUT, CKRSLI, CKRSL2/0, 0, 16384/ 202=1 DATA TERNSP, IAPMSP, IASMSP, IAPSSP, IAPMSP, IASMSP/7*0/ 203=1 DATA DIRST, PRMOOP, PREMILY, DIDGS, PTDGS/2#0, 50, 3#0/ 204=1 DATA TDELAY, TIMER, DMOOP, PDMOOP/4#0/ 205=1 DATA SCCPOF, PCFWNP, DLGPON/3#0/. 3=1 DATA SCCPOF, PCFWNP, DLGPON/3#0/. 3=1 DATA SCDOWN, DLCVV, DHCVV, MN3PON, TRKSTP, SURISE/300, 4#0, 205=1 DATA SCDOWN, DLCVV, DHCVV, MN3PON, TRKSTP, SURISE/300, 4#0, 205=1 DATA PMTVV, PTTVV, SATVV, STTVV/4#0/ 205=1 DATA RAYS, AUXS, AUXS, AUXS, AUXS, AUXS, IDES/7F0/ 205=1 DATA RAYS, AUXS, AUXS, AUXS, AUXS, AUXS, IDES/7F0/ 210=1 DATA RAYS, AUXS, AUXS, AUXS, AUXS, AUXS, IDES/7F0/ 211=1 DATA RAYS, AUXS, AUXS, AUXS, AUXS, AUXS, AUXS, IDES/7F0/ 211=1 DATA PFER, WURNST  1 +710.83, 0, 5676/ 214=1 DATA PFER, SPMTPR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6#0.0/ 215=1 DATA PFMTPR, SFMTPR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6#0.0/ 215=1 DATA DAMSP, DSMSP, DSWSP, INTCPT/4#0.0, 2, 587, 0.0, -0, 47 215=1 DATA PMTRG, DSMS, DPMSP, DSWSP, INTCPT/4#0.0, 2, 587, 0.0, -0, 47 215=1 DATA PMTRG, DSMS, DPMSP, PMDIS, PMDIFY, SWO, 0, 2, 587, 0.0, -0, 47 215=1 DATA PMTRG, DSMS, SMDIS, SMDFP/7#0.0/ 215=1 DATA PMTRG, DSMP, REPPT, REPFT, REPST/3#0.0, .85, 0.0/ DATA SMTRG, DSMP, RESPPP, PPMDFP, REPSPP/3#0.0/ 220=1 DATA PMTRG, DSMP, RESPPP, PPMDFP, REPSPP/3#0.0/ 221=1 DATA PMTRG, DSMP, RESPPP, PPMEFF, REPSPP/3#0.0/ 222=1 DATA SPDIS, SPDFP, MASMSP, REPSPP/3#0.0/ 223=1 DATA SPDIS, SPDFP, MASMSP, REPSPP/3#0.0/ 223=1 DATA SPDIS, SPDFP, MASMSP, REPSPP/3#0.0/ 224=1 DATA SPDIS, SPDFP, MASMSP, REPSPP/3#0.0/ 225=1 DATA SPDIS, SSPDFP, MASMSP, REPSPP/3#0.0/ 225=1 DATA PMTRG, DSMP, REPSPP, PMPR, STMPR/44*0.0/ 225=1 DATA DHMSPS, PAMPR, SAMPR, PMPR, SMPRR/44*0.0/ 225=1 DATA DHMSPS, PAMPR, SAMPR, PMPR, SMPRR/44*0.0/ 225=1 DATA DHMSP	TESTS.HYBPSS.HYNBPS.ENGNUN.ENGMSG73*0.78.0.0  TP.CKPLST.CKRLST72*0.11.245767  1.CKRSL270.0.163347  PP.IASMSP.IAPSSP.IASSSP.IAPWSP.TASWSP77*07  PERRDLY.DIDGS.PDTDGS.PTDGS72*0.50.3*07  R.DMDOP.PDMOOP74*07  REGOTD.GROPEN.PCFWBP.BLGOFF.SLOWER750.0.30.3*0.27  P.DHCVV.MNSPUN.MSPON.TRKSTP.SURTSE7300.4*0.50.07  PSATVV.SFTVV/4*07  JX3.AUX4.AUX5.AUX5.AUX7.AUXS.IDES77*07  SS.RPSS.RES/5*07  ***O****O****O****O****O****O***O***O		
### ### ##############################	Proceduration (11,245/6/ 11,000 (1534/1) 11,000 (1534/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,000 (1530/1) 11,00		
DATA CKPOMP, CKRAMP, CKPLST, CKRLST/2*0,11,245/6/  201#1 DATA CKPSLT, CKRSLI, CKRSL2/0,0,16384/  202#1 DATA TAENSP, TAPMSP, TASMSP, TASSSP, TASSSP, TASSSP/7*0/  203#1 DATA DTRST, PRMOOP, ERRDLY, DTDGS, PDTDGS, PTDGGS/2*0,50,3*0/  204#1 DATA TOELAY, TIMER, DMOOP, PDMOOP/4*0/  204#1 DATA SECFOF, PCFWMP, BLGDON/3*0/  5#1 DATA SCTOTO-CKCLSE, GOTO, CKROMPEN, PCFWBP, BLGOFF, SLOWER/50,0,30,3  .7#1 DATA SUDOWN, DLCOV, DHCOV, MN3PON, M3PON, TRKSTP, SURTSE/300, 4*0,  205#1 DATA PATOV, PFTVV, SATOV, STTOV/4*0/  205#1 DATA PATOV, PTTVV, SATOV, STTOV/4*0/  205#1 DATA AUXI, NUX2, AUX3, AUX4, AUX5, NUX6, AUX7, AUX8, TDES/7*0/  210#1 DATA RSMS, RPMS, RSSS, RES/5*0/  211#1 DATA APBCAN, ASSBCAN, DHMSP, DHMSR, DTRNR, PAMTPR/6*0.0/  213#1 DATA PRR, WJCNST  **1 **10.38, 0.3676/  214#1 DATA PPMTPR, SFMTPR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6*0.0/  215#1 DATA DHWSP, DSMSP, DDHMSP, PNITIG, AUX9, AUX10/4*0.0, 0.186, 0.7% 1/  215#1 DATA DHWSP, DSMSP, DDHMSP, PNITIG, AUX9, AUX10/4*0.0, 0.186, 0.7% 1/  215#1 DATA APPS, ASSS, RESPENP, PMDEP/75*0.0/  215#1 DATA APPS, ASSS, RENSP, PMDEP/75*0.0/  215#1 DATA APPS, ASSS, RENSP, PMDEP/75*0.0/  215#1 DATA APMSR, ASSS, RENSP, PMDEP/75*0.0/  215#1 DATA APMSR, ASSS, RENSP, PMDEP/75*0.0/  225#1 DATA APMSR, ASSS, RESPENP, PMDEP/75*0.0/  225#1 DATA APMSR, SHDIS, SMDPP/4*0.0/  225#1 DATA APMSR, TREFF, REPS/72*0.0, .95, 0.0/  225#1 DATA APMSR, DSMSP, SMDIS, SMDPP/4*0.0/  225#1 DATA SPTRG, DSMP, STREFF, REPS/75*0.0/  225#1 DATA SPTRG, DSMP, STREFF, REPS/75*0.0/  225#1 DATA SPTRG, DSMP, SPREPP, PMSP, ASSSP/4*0.0/  225#1 DATA SPTRG, DSMP, SPREPP, REPS, PASSOP/4*0.0/  225*1 DATA SPTRG, DSMP, SPREPP, PMSP, ASSSP/4*0.0/  225*1 DATA SPTRG, DSMP, SPREPP, SPPNEPP, ALPMSP, ASSNS/2*0.0/, .95, 0.0/  225*1 DATA SPTRG, DSMP, SPREPP, SPPNEPP, ALPMSP, ALSMSP/2*0.0/, .95, 0.0/  225*1 DATA SPTRG, DSMP, SPREPP, SPPNEPP, ALPMSP, ALSMSP/2*0.0/, .95, 0.0/  225*1 DATA SPTRG, DSMP, SPREPP, SPMPR, SPMPR/44*0.0/  225*1 DATA SPTRG, DSMP, SPMPR, SPMPR, SPMPR/44*0.0/  225*1 DATA SPTRG, DSMP, SPMPR, SPMPR, SPMPR/44*0.0/  225*1 DATA SPD	IT.CKRSL270,0,163347  PP.TASMSP.TAPSSP.TASSSP.TAPWSP.TASWSP/7*0/ PP.ERRDLY.DTDGS.PDTDGS.PTDGS/2*0.50,3*0/ K.DMDUP.PDMODP74*0/ PP.BLGPON/3*0/ WP.BLGPON/3*0/ WP.BLGPON/3*0/ V.DHCVV.MNSPUN.MSPUN.TRKSTP.SURTSE/300,4*0,50,0/ SATVV.SFTVV/4*0/ DX3.AUX4.AUX5.AUX5.AUX6.AUX7.AUXS.TDES/7*0/ DX3.RES/5*0/ **0/ AN.DHMSP.DHMSR.DTRNR.PAMTPR/5*0.0/ PR.SAMTPR.ENCTEM.PHUTEM.SHUTEM/6*0.0/ DDHMSP.PNTTG.AUX9.AUX10/4*0.0.0.186.U.~1/ DDHMSP.PSWSP.INTCPT/4*0.0.2.58/.0.00.4/ ENSP.PMDIS.PMDFP/3*0.0/ STREFF.REPT/2*0.0/ STREFF.REPT/2*0.0/ STREFF.REPT/2*0.0/ STREFF.REPT/2*0.0/ STREFF.REPT/2*0.0/ STREFF.REPT/2*0.0/ STREFF.REPT/2*0.0/ STREFF.REPT/2*0.0/ STREFF.REPP.AUX0.0/ STREFF.REPP.AU	=1	
DATA CKPSLT,CKRSLT,CKRSLZ/O,O,16394/ 202=1 DATA TAENSP,TAPMSP,TASMSP,TAPSSP,TAPMSP,TASMSP/7*0/ 203=1 DATA DTRST,PRMODP,ERRDLY,DTDGS,PTDGS,PTDGS/Z*0.50,3*0/ 204=1 DATA TELAY,TIMEK,DMOOP,PDMOOP/4*0/ 205=1 DATA SECPOF,PCFWNP,BLGPON/3*0/ 5*1 DATA SCCPOF,PCFWNP,BLGPON/3*0/ 5*1 DATA SCCPOF,PCFWNP,BLGPON,PCFWNP,BLGUFF,SLDWER/50,0,30,30,30,30,30,30,30,30,30,30,30,30,	IT.CKRSL270,0,163347  PP.TASMSP.TAPSSP.TASSSP.TAPWSP.TASWSP/7*0/ PP.ERRDLY.DTDGS.PDTDGS.PTDGS/2*0.50,3*0/ K.DMDUP.PDMOOP74*0/ MP.BLGPON/3*0/ MP.BLGPON/3*0/ MP.BLGPON/3*0/ MP.BLGPON/3*0/ MRSPON.MSPUN.MSPUN.TRKSTP.SURTSE/300,4*0,50,0/ MSTAVV.SFTVV/4*0/ DX3.AUX4.AUX5.AUX6.AUX7.AUXS.TDES/7*0/ SS.RPSS.RES/5*0/ **0/ AN.DHMSP.DHMSR.DTRNR.PAMTPR/5*0.0/ PR.SAMTPR.ENCTEM.PHUTEM.SHUTEM/6*0.0/ DDHMSP.PNTIG.AUX9.AUX10/4*0.0.0.186.U.**1/ DDHMSP.PSWSP.INTCPT/4*0.0.2.58/.0.0.=0.4/ ENSP.PMDIS.PMDFP/3*0.0/ STREFF.REPT/2*0.0/ STREFF.REPT/2*0.0/ STREFF.REPT/2*0.0/ STREFF.REPT/2*0.0/ STREFF.REPT/2*0.0/ STREFF.REPP.AUX0.0/ STREFF.REPP.AUX0.0/ STREFF.REPT/2*0.0/ STREFF.REPP.AUX0.0/ STREFF.REPP.AUX0.0	<del>-</del>	
DATA TAENSP, TAPMSP, TASMSP, TAPSSP, TASSSP, TAPWSP, TASWSP/7#07 203=1 DATA DIRST, PRMOOP, ERRDLY, DIDGS, PIDGS, PTDGS72#0, 50, 3#07 204=1 DATA TELAY, TIMER, DMOOP, PDMOOP/4#07  S#1 DATA SCEPOF, PCFWWP, DLGPON/3#07  S#1 DATA SCEPOF, PCFWWP, DLGPON/3#07  DATA SCEDOR, DLCVV, DHCVV, MN3PDN, MSPDN, TRKSTP, SURJEC/50, 0, 30, 3  7=1 DATA SCEDORN, DLCVV, DHCVV, MN3PDN, TRKSTP, SURJEC/300, 4#0, 203=1 DATA PATVV, PFTVV, SATVV, SFTVY/4#0/ 209=1 DATA AWXI, AUX2, AUX3, AUX4, AUX5, AUX7, AUX9, TDES/79*07  210=1 DATA RSMS, RPMS, RSSS, RES/5#0/ 211=1 DATA APPCAN, ASBCAN, DHMSP, DRMSR, DTRNR, PAMTPR/6#0.07  213=1 DATA PROCAN, ASBCAN, DHMSP, DRMSR, DTRNR, PAMTPR/6#0.07  213=1 DATA PROCAN, ASBCAN, DHMSP, DRMSR, DTRNR, PAMTPR/6#0.07  213=1 DATA DHWSP, SPMTPR, SAMTPR, ENCTEM, PHOTEM, SHOTEM/6#0, 0, 0, 186, 0, 27  214=1 DATA DHWSP, DSMSP, DDHMSP, PNTIG, AUX9, AUX10/4#0, 0, 0, 186, 0, 27  215=1 DATA DHWSP, DHMSR, DPWSP, DSWSP, TNTCPT/4#0, 0, 2, 387, 0, 0, -0, 47  217=1 DATA PMTRQ, DSMSP, SAMSP, PMDIS, SMDFP/7#0, 0, 25  13=1 DATA APPS, ASPS, AENSP, PMDIS, SMDFP/7#0, 0, 25, 0, 0, 0  219=1 DATA SHTRQ, DSMP, STREFF, REPT/2#0, 0, 85, 0, 0/  221=1 DATA PPTRQ, DPPP, REPPP, PPMEFF, REPSP/3#0, 0, 95, 0, 0/  224=1 DATA SPDIS, PPDFP, MASSP, ASSSP/4#0, 0/  225=1 DATA SPDIS, SPDFP, MASWSP, REPP, ALPMSP, ALSMSP/2#0, 0, 95, 3#0, 0/  226=1 DATA ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TURKUCE/6#0, 0/  DATA DHMSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TURKUCE/6#0, 0/  DATA DHMSP, PAMPR, SAMPR, PFMPR, SFMFR/44#0, 0/  223=1 DATA DHMSP, PAMPR, SAMPR, PFMPR, SFMFR/44#0, 0/  224=1 DATA DHMSP, PAMPR, SAMPR, PFMPR, SFMFR/44#0, 0/  225=1 DATA DHMSP, PAMPR, SAMPR, PFMPR, SFMFR/44#0, 0/	P, TASMSP, TAPSSP, TASSSP, TAPWSP, TASWSP/7*0/ P, ERRDLY, DTDGS, PDTDGS, PTDGS/2*0, 50, 3*0/ R, DMOOP, PDMOOP/4*0/ RP, BLGPON/3*07 RGOTD, GROPEN, PCFWBP, BLGOFF, SLOWER/50, 0, 30, 3*0, 2/ P, DHCVV, MN3PON, M3PON, TRKSTP, SURTSE/300, 4*0, 50, 0/ SATVV, SFTVV/4*0/ DX3, AUX4, AUX5, AUX6, AUX7, AUX8, TDES/7*0/ PSS, RPSS, RES/5*0/ **0/ AN, DHMSP, DHMSR, DTRNR, PAMTPR/6*0.0/ PR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6*0.0/ PR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6*0.0/ PDPWSP, DSWSP, INTCPT/4*0.0, 2.58/,0.0, -0.4/ ENSP, PMDIS, PMDFP/5*0.0/ REPPT, PTREFF, REPST/3*0.0, .85, 0.0/ STREFF, REPT/2*0.0, .85, 0.0/ PRPWJ, DSFRT, SDIFP, DPSWJ/6*0.0/ PRPPP, PPMEFF, REPSP/3*0.0, .95, 0.0/ PRPPP, PPMEFF, REPSP/3*0.0, .95, 0.0/ PRPPP, REPP, ALPMSP, ALSMSP/2*0.0, .93, 3*0.0/ PRMAXWSP, AUXPOW, TRNPOW, TURWOE/6*0.0/ PR, MAXWSP, AUXPOW, TRNPOW, TURWOE/6*0.0/ PR, SAMPR, PFMPR, SFMPR/44*0.0/		
DATA DTRST,PRMCOP,ERRDLY,DTDGS.PDTDGS.PTDGS.2*0.50.3*0/ 204=1 DATA TDELAY.TIMER.DMOOP.PDMOOP/**0/ 204=1 DATA SECFOF,PCFWNP,BLGPON/3*0/ 205=1 DATA SECFOF,PCFWNP,BLGPON/3*0/ 205=1 DATA SECFOF,PCFWNP,BLGPON/3*0/ 205=1 DATA SUDGAN,DLCOV.DHCVV.MN3PON.TRKSTP.SUDWER/50.0.30.3 7=1 DATA SUDGAN,DLCOV.DHCVV.MN3PON.TRKSTP.SURTSE/300.4*0, 205=1 DATA PATVV.PTVV.SATVV.STTVV/4*0/ 205=1 DATA AUXI.AUX2.AUX3.AUX4.AUX5.AUX6.AUX7.AUX8.TDES/7*0/ 210=1 DATA RSMS.RPMS.RSSS.RPSS.RES/5*0/ 211=1 DATA PTVV.STVV/2*0/ 212=1 DATA PBCAN.ASBCAN.DHMSP.DHMSR.DTRNR.PAMTPR/6*0.0/ 213=1 DATA PBCAN.ASBCAN.DHMSP.DHMSR.DTRNR.PAMTPR/6*0.0/ 214=1 DATA PPMTPR.SFMTPR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*0.0/ 215=1 DATA DFMSP.DSMSP.DDHMSP.PNTIG.AUX9.AUX10/4*0.0.0.136.0.*2/ 216=1 DATA DFMSP.DSMSP.DDHMSP.PNTIG.AUX9.AUX10/4*0.0.0.136.0.*2/ 215=1 DATA DFMSP.SABNSP.PMDIS.SFMDFP/5*0.0/ 215=1 DATA APPS.ASPS.AENSP.PMDIS.SFMDFP/5*0.0/ 215=1 DATA APPS.ASPS.AENSP.PMDIS.SFMDFP/5*0.0/ 221=1 DATA SMTRQ.DSMP.STREFF.REPT/2*0.0.85.0.0/ 221=1 DATA SMTRQ.DSMP.STREFF.REPT/2*0.0.85.0.0/ 221=1 DATA PPDIS.FPDFP.APSSP.ASSSP/4*0.0/ 223=1 DATA PPDIS.FPDFP.APSSP.ASSSP/4*0.0/ 224=1 DATA SPTRQ.DSMP.STREFF.REPP.ALSMSP/2*0.0/.95.3*0.0/ 225=1 DATA SPTRQ.DSMP.STREFF.REPP.ALSMSP/2*0.0/.95.3*0.0/ 226=1 DATA SPTRQ.DSMP.SPMEFF.REPP.ALSMSP/2*0.0/.95.3*0.0/ 227=1 DATA APPS.SPDFP.MAXNSP.REPP.ALSMSP/2*0.0/.95.3*0.0/ 226=1 DATA APPS.SPDFP.MAXNSP.REPP.ALSMSP/2*0.0/.95.3*0.0/ 227=1 DATA APPS.SPMEFF.REPP.ALSMSP/2*0.0/.95.3*0.0/ 226=1 DATA APPS.SPMEFF.REPP.ALSMSP/2*0.0/.95.3*0.0/ 227=1 DATA APPS.SPMEFF.REPP.ALSMSP/2*0.0/.95.3*0.0/ 226=1 DATA APPS.SPMEFF.REPP.ALSMSP.ALSMSP/2*0.0/.95.3*0.0/ 227=1 DATA APPS.SPMEFF.REPP.ALSMSP.ALSMSP/2*0.0/.95.3*0.0/ 228=1 DATA BPRS.SPMERS.SMPR.SPMEFF.SPMPR.SFMPR/44*0.0/ 228=1 DATA DHMSP.SPMERS.SAMPR.SPMPR.SFMPR/44*0.0/ 228=1 DATA DHMSP.SPMERS.SAMPR.SPMPR.SFMPR/44*0.0/ 228=1 DATA DHMSP.SPMERS.SAMPR.SPMPR.SFMPR/44*0.0/ 228=1 DATA DHMSP.SPMERS.SAMPR.SPMPR.SFMPR/44*0.0/	7,ERRDLY,DTDGS,PDTDGS,PTDGS72*0,50,3*0/ 3,DMDOP,PDMOOP74*0/ NP,BLGPON/3*0/ .GOTD,GROPEN,PCFWBP,BLGUFF,SLUWER/50,0,30,3*0,2/ .DHCVV,MN3PON,M3PON,TRKSTP,SURISE/300,4*0,50,0/ .SATVV,SFTVV/4*0/ .SX3,AUX4,AUX5,AUX6,AUX7,AUXS,TDES/7*0/ .SX5,RPSS,RES/5*0/ .NOTHMSP,DHMSR,DTRNR,PAMTPR/6*0.0/ .ROPHMSP,PNTIG,AUX9,AUX10/4*0.0,0.186,U.*1/ .DPWSP,DSWSP,INTCPT/4*0.0,2.587,0.0,-0.4/ .ENSP,FMDIS,PMDFP/5*0.0/ .SMDIS,SMDFP/4*0.0/ .SMDIS,SMDFP/4*0.0/ .STREFF,REPT/2*0.0,.85,0.0/ .DPWJ,DSFRT,SDIFP,DPSWJ/6*0.0/ .APSSP,ASSSP/4*0.0/ .REPPP,PPMEFF,REPSP/3*0.0,.95,0.0/ .MAXMSF,TREP,DES/5*0.0/ .SPMEFF,REPP,ALPMSP,ALSMSP/2*0.0,.98,3*0.0/ .SPMEFF,REPP,ALPMSP,ALSMSP/2*0.0,.98,3*0.0/ .REPPR,AUXPOW,TRNPOW,TURQUE/6*0.0/ .KS,K6,K7,K8,K9,K10/0.18,-0.36,1.25,0.7575 2.3*0.0/ R,SAMPR,PFMPR,SFMPR/44*0.0/		
DATH TDELAY, TIMER, DMOUP, PDMOUP/4*07  205=1 DATA SECPOF, PCFNNP, BLGPONY3*07.  S*1 DATA SECPOF, PCFNNP, BLGPONY3*07.  S*1 DATA SECTO, GRCLSE, GOTD, GROPEN, PCFNBP, BLGUFF, SLDWER/50, 0, 30, 30, 30, 30, 30, 30, 30, 30, 30	R.DMOOP, PDMOOP/4*0/ NP.BLGPON/3*07 TGOTD, GROPEN.PCFWBP, BLGOFF, SLOWER/50,0,30,3*0,2/ Z.DHCVV, MN3PON, M3PON, TRRSTP, SURTSE/300, 4*0,50,0/ SATVV.SFTVV/4*0/ DX3, AUX4, AUX5, AUX5, AUX7, AUXS, IDES/7*0/ SSS, RPSS, RES/5*0/ **O/ AN, DHMSP, DRMSR, DTRNR, PAMTPR/5*0.0/	-	
DATA SECFOF, PCFWNP, BLGPON73*07  S*I DATA GCTD, GRCLSE, GOTD, GRCPEN, PCFWBP, BLGUFF, SLDWER/50.0, 30.3  .7=1 DATA SUDOWN, BLCVV, DHCVV, MNSPON, MSPON, TRKSTP, SURISE/300, 440.7  203=1 DATA PATVV, PTTVV, SATVV, STVV/4*0/  209=1 DATA AUXI, AUX2, AUX3, AUX4, AUX5, AUX6, AUX7, AUX8, IDES/7*0/  210=1 DATA RSMS, RPMS, RSSS, RPSS, RES/5*0/  211=1 DATA FTVV, STVV/2*0/  212=1 DATA PTR, WJCNST  */10.38,0.3676/  214=1 DATA PFMTPR, SFMTPR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6*0.0/  215=1 DATA DFMSP, DSMSP, ODMMSP, DTTG, AUX9, AUX10/4*0.0, 186, 0.**1/  216=1 DATA DFMSP, DSMSP, DSWSP, INTEPT/4*0.0, 2.587, 0.0, -0.4/  217=1 DATA APPS, ASPS, AENSP, PMDIS, PMDFP/3*0.0/  218=1 DATA APMS, BSMP, SMDIS, SMDFP/3*0.0/  219=1 DATA APMSR, DSMP, STREFF, REPST/3*0.0, .85, 0.0/  221=1 DATA APMSR, DSMP, STREFF, REPST/2*0.0, .85, 0.0/  221=1 DATA PFTRG, DSMP, STREFF, REPSP/3*0.0/  223=1 DATA PFDIS, FPDFP, APSSP, ASSSP/4*0.0/  223=1 DATA PFDIS, SPDFP, MAXMSP, TREP, DES/5*0.0/  224=1 DATA SPDIS, SPDFP, MAXMSP, TREP, DES/5*0.0/  225=1 DATA SPTRG, DSPP, SPMEFF, REPPP, ALPMSP, ALSMSP/2*0.0/, .95, 3*0.0/  225=1 DATA APPDIS, SPDFP, MAXMSP, TREP, DES/5*0.0/  225=1 DATA APPDIS, SPDFP, MAXMSP, TREP, DES/5*0.0/  225=1 DATA APPDIS, SPDFP, MAXMSP, AUXPOW, TRNPOW, TORWUS/6*0.0/  225=1 DATA ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TORWUS/6*0.0/  226=1 DATA ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TORWUS/6*0.0/  227-1 DATA ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TORWUS/6*0.0/  228=1 DATA DHMSPB, PAMPR, SPMPR, PFMPR, SFMPR/44*0.0/  228=1 DATA DHMSPB, PAMPR, SAMPR, PFMPR, SFMPR/44*0.0/	RP, BLGPON/3*07 .GOTD, GROPEN, PCFWBP, BLGUFF, SLUWER/50, 0, 30, 3*0, 2/ /, DHCVV, MNBPUN, MBPUN, TRKSTP, SURISE/300, 4*0, 50, 07 .SATVV, SFTVV/4*0/  JX3, AUX4, AUX5, AUX6, AUX7, AUX8, IDES/7*0/ .SSS, RPSS, RES/5*0/ *0/ AN, DHMSP, DHMSR, DTRNR, PAMTPR/6*0.0/ .CDHMSP, PNTIG, AUX9, AUX10/4*0.0, 0, 186, 0, 7, 17 .DPWSP, DSWSP, INTCPT/4*0.0, 2, 587, 0.0, -0, 47 .ENSP, FMDIS, PMDFP/5*0.0/ .REPPT, PTREFF, REPST/3*0.0, .85, 0.0/ .STREFF, REPT/2*0.0, .85, 0.0/ .APSSP, ASSSP/4*0.0/ .REPPP, PPMEFF, REPS/3*0.0, .95, 0.0/ .MAXMSP, TREP, DES/5*0.0/ .PMAXMSP, AUXPOW, TRNPOW, TURWUE/6*0.0/ .KS, K6, K7, K8, K3, K10/0.18, -0.36, 1.25, 0.75/5 2, 3*0.0/ R, SAMPR, PFMPR, SFMPR/44*0.0/	<del>-</del>	
DATA GCTD, GRCLSE, GOTD, GROPEN, PCFWBP, BLGUFF, SLOWER/50,0,30,30,30,30,31 DATA SUDDAN, BLCOV, DHCOV, NMBPON, MRSPON, TRRSTP, SURTSE/300,4*0,20,30,31 DATA PATVV, PFTVV, SATVV, SFTVV/4*0/ DATA AUXI, AUXI, AUXI, AUXI, AUXI, AUXI, AUXI, TDES/7%0/ DATA RASMS, RPMS, RSSS, RES/5*0/ DATA PTVV, STVV/2*0/ DATA PTVV, STVV/2*0/ DATA PDR, WCCNST  11-1 DATA PDR, WCCNST  11-1 DATA PDR, WCCNST  11-1 DATA PFMTPR, SFMTPR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6*0.0/ DATA PFMTPR, SFMTPR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6*0.0/ DATA DFMSP, DSMSP, DDHMSP, FNTIG, AUXY, AUXIO/4*0.0,0.185,0.7/ DATA DFMSP, DSMSP, DDHMSP, FNTIG, AUXY, AUXIO/4*0.0,0.185,0.7/ DATA DHWSP, DHWSR, DPWSP, DSWSP, INTOFT/4*0.0,2.587,0.0,-0.4/ DATA APPS, ASPS, AENSP, FMDIS, PMDFP/5*0.0/ DATA PMTRQ, DPMP, REPPT, PTREFF, REPST/3*0.0, .85,0.0/ DATA PMTRQ, DSMP, STREFF, REPT/2*0.0, .85,0.0/ DATA SMTRQ, DSMP, STREFF, REPT/2*0.0, .85,0.0/ DATA PPDIS, PPDPP, APSSP, ASSSP/4*0.0/ DATA SPDIS, SPDFP, APSSP, ASSSP/4*0.0/ DATA SPDIS, SPDFP, MAXMSP, AUXIPOW, TRNPOW, TORROE/6*0.0/ DATA SPTRQ, DSPP, SPMEFF, REPP, ALPMSP, HLSMSP/2*0.0, .95,3*0.0/ DATA SPTRQ, DSPP, SPMEFF, REPP, ALPMSP, HLSMSP/2*0.0, .95,3*0.0/ DATA ALPWSP, ALSWSP, MAXMSP, AUXIPOW, TRNPOW, TORROE/6*0.0/ DATA ALPWSP, ALSWSP, MAXMSP, AUXIPOW, TRNPOW, TORROE/6*0.0/ DATA ALPWSP, ALSWSP, MAXMSP, AUXIPOW, TRNPOW, TORROE/6*0.0/ DATA DHMSPS, PAMPR, SAMPR, PFMPR, SPMPR/44*0.0/ DATA DHMSPS, PAMPR, SAMPR, SPMPR/44*0.0/ DATA DHMSPS, PAMPR, SAMPR, SPMPR/44*0.0/ DATA DHMSPS, PAMPR, SAMPR, SPMPR/44*0.0/	GOTD, GROPEN, PCFWBP, BLGUFF, SLDWER/50, 0, 30, 340, 27  7. DHCVV, MN3PUN, M3PUN, TRKSTP, SURTSE/300, 4*0, 50, 07  7. SATVV.SFTVV/4*0/  1X3, AUX4, AUX5, AUX6, AUX7, AUX5, TDES/7*0/  2S5, RPSS, RES/5*0/  *0/  AN, DHMSP, DRMSR, DTRNR, PAMTPR/6*0.0/  PR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6*0.0/  *OPWSP, DSWSP, INTCFT/4*0.0, 2. 587, 0.0, -0.4/  ENSP, FMDIS, PMDFP/5*0.0/  REPPT, PTREFF, REPST/3*0.0, .85, 0.0/  *SMDIS, SMDFP/4*0.0/  *TREFF, REPT/2*0.0, .85, 0.0/  *APSSP, ASSSP/4*0.0/  REPPP, PPMEFF, REPSP/3*0.0, .95, 0.0/  *MAXWSP, TREP, DES/5*0.0/  *SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0, .95, 3*0.0/  **P, MAXWSP, AUXPOW, TRNPOW, TORQUE/6*0.0/  **K5, K6, K7, K8, K9, K10/0.18, -0.86, 1.25, 0.75/5  2.3*0.0/  **R, SAMPR, PFMPR, SFMPR/44*0.0/		
DATA SUDDAN, DECVY, DHCVY, MNSPUN, MSPUN, TRESTP, SURTSE7300, 4*0, 208=1  DATA PATVY, PTVY, SATVY, STTVY/4*0/  209=1  DATA AUXI, AUXI, AUXI, AUXI, AUXI, AUXI, AUXI, TUSI/7*0/  210=1  DATA RSMS, RPMS, RSSS, RPSS, RES/5*0/  211=1  DATA PTVY, STVY/2*0/  DATA APBCAN, ASBCAN, DHMSP, DRMSR, DTRNR, PAMTPR/6*0.0/  213=1  DATA PER, WUCNST  =1  #/10.88,0.5676/  Z14=1  DATA PFMTPR, SFMTPR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6*0.0/  215=1  DATA DHWSP, DSMSP, ODHMSP, PNTIG, AUXY, AUXIO/4*0.0, 0.186, 0.79/ 216=1  DATA DHWSP, DHMSR, DPWSP, DSWSP, INTCPT/4*0.0, 2.587, 0.0, -0.47/  217=1  DATA APPS, ASPS, AEMSP, PMDIS, PMDFP/5*0.0/  DATA APMSP, ASMSP, SMDIS, SMDFP, REPST/3*0.0, .85,0.0/  221=1  DATA PMTRQ, DSMP, STREFF, REPT/2*0.0, .85,0.0/  DATA PPDRG, PDPP, RESPP, PPMEFF, REPSP/3*0.0, .95,0.0/  222=1  DATA PPTRG, DSPP, RESPP, PPMEFF, REPS/3*0.0, .95,0.0/  DATA SPTRQ, DSPP, SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0, .95,3*0.0/  224=1  DATA SPTRQ, DSPP, SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0, .95,3*0.0/  225=1  DATA SPTRQ, DSPP, SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0, .95,3*0.0/  225=1  DATA ALPMSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TURRUE/6*0.0/  DATA SPTRQ, DSPP, SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0, .95,3*0.0/  225=1  DATA ALPMSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TURRUE/6*0.0/  DATA BHMSPS, PAMPR, SAMPR, PFMPR, SPMPR/44*0.0/  DATA DHMSPS, PAMPR, SAMPR, PFMPR, SPMPR/44*0.0/  DATA DHMSPS, PAMPR, SAMPR, PFMPR, SPMPR/44*0.0/  DATA DHMSPS, PAMPR, SAMPR, SPMPR/44*0.0/	V.DHCVV.MN3PON.M3PON,TRRSTP.SURISE/300,4*0,50,07 SATVV.SFTVV/4*0/ DX3.AUX4.AUX5.AUX6.AUX7.AUX6.TDES/7*0/ SSS.RPSS.RES/5*0/ *0/ AN.DHMSP.DHMSR.DTRNR.PAMTPR/6*0.07 PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*0.07 PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*0.07 PROBMSP.DSWSP.INTCPT/4*0.0,2.58/,0.0,-0.47 ENSP.PMDIS.PMDFP/5*0.0/ REPPT.PTREFF.REPST/3*0.0,.85.0.0/ STREFF.REPT/2*0.0,.85,0.0/ DPPWJ.DSFRT.SDIFP.DFSWJ/6*0.0/ REPPP.PPMEFF.REPSP/3*0.0/ PRESP.ASSSP/4*0.0/ STREFF.REPT/2*0.0.0/ PRESP.RESSP.A*0.0/ PRESP.RESSP.A*0.0/ REPPP.REPP.ACPMSP.HLSMSP/2*0.0/.95.3*0.0/ PRESP.REPP.ACPMSP.HLSMSP/2*0.0/.75/3 PMAXWSP.AUXPOW.TRNPOW.TORQUE/6*0.0/ R.S.K6.K7.K8.K9.K10/0.18,-0.86.1.25.0.75/3 2.3*0.0/ R.SAMPR.PFMPR.SFMPR/44*0.0/	- <del>-</del> -	
DATA PATVV, PFTVV, SATVV, SFTVV/4*07  209=1 DATA AUXI, AUX2, AUX3, AUX4, AUX5, AUX6, AUX7, AUX8, IDES/7%07  210=1 DATA RSMS, RPMS, RSSS, RPSS, RES/5*07  211=1 DATA PTVV, STVV/2*07  212=1 DATA APBCAN, ASBCAN, DHMSP, DRMSR, DTRNR, PAMTPR/6*0.07  213=1 DATA PBR, WJCNST  +/10.38, 0.3676/  214=1 DATA PFMTPR, SFMTPR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6*0.07  215=1 DATA PFMTPR, SFMTPR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6*0.07  215=1 DATA DFMSP, DSMSP, DDMSP, PNITG, AUX9, AUX10/4*0.0, 0.186, 0.79.17  216=1 DATA DHWSP, DHWSR, DPWSP, DSWSP, INTCPT/4*0.0, 2.387, 0.0, -0.47  217=1 DATA APPS, ASPS, AENSP, PMDIS, PMDFP/7*0.07  218=1 DATA APMSP, ASMSP, SMDIS, SMDFP/4*0.07  219=1 DATA APMSP, ASMSP, SMDIS, SMDFP/4*0.07  221=1 DATA SMTRQ, DSMP, STREFF, REPT/2*0.0, .85, 0.07  221=1 DATA PPTRQ, DSMP, STREFF, REPT/2*0.0, .95, 0.07  223=1 DATA PPTRQ, DPPP, REPPP, PPMEFF, REPSP/3*0.0, .95, 0.07  224=1 DATA SPDIS, SPDFP, MAXMSP, TREP, DES/5*0.07  225=1 DATA SPTRQ, DSPP, SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0, .93, 3*0.07  225=1 DATA SPTRQ, DSPP, SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0, .93, 3*0.07  225=1 DATA ALPWSP, ALSMSP, MAXMSP, AUXPOW, TRNPOW, TORWUE/6*0.07  227=1 DATA ALPWSP, ALSMSP, RAXPOW, TRNPOW, TORWUE/6*0.07  227=1 DATA ALPWSP, ALSMSP, RAXPOW, TRNPOW, TORWUE/6*0.07  227=1 DATA ALPWSP, SK4, K5, K6, K7, K8, K9, K10/0.18, -0.36, 1.25, 0.75/5	SATVV.SFTVV/4*0/ DX3.AUX4.AUX5.AUX6.AUX7.AUX6.IDES77*07 SSS.RPSS.RES75*07 **07 AN.DHMSP.DHMSR.DTRNR.PAMTPR/6*0.07  PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*0.07  ***ODHMSP.PNIIG.AUX9.AUX10/4*0.0.0.186.0.0.17  ***DPWSP.DSWSP.INTCPT/4*0.0.2.587.0.0.0-0.47  ENSP.PMDIS.PMDFP/5*0.07  REPPT.PTREFF.REPST/3*0.085.0.07  ***SMDIS.SMDFP/4*0.07  STREFF.REPT/2*0.085.0.07  ***PPWJ.DSFRT.SDIFP.DPSWJ/6*0.07  ***APSP.ASSSP/4*0.07  REPPP.PMEFF.REPSP/3*0.095.0.07  ***MAXMSF.TREP.DES/5*0.07  ***PMEFF.REPP.ALPMSP.ALSMSP/2*0.095.3*0.07  ***PMEFF.REPP.ALPMSP.ALSMSP/2*0.095.3*0.07  ***PMAXMSP.AUXPOW.TRNPOW.TURQUE/6*0.07  ****K6.K7.K8.K9.K1070.180.86.1.25.0.7575  2.3***0.07  R.SAMPR.PFMPR.SFMPR/44**0.07		
DATA AUXI, AUX2, AUX3, AUX5, AUX5, AUX5, AUX5, AUX5, IDES/79%0/ 210=1 DATA RSMS, RPMS, RSSS, RPSS, RES/5*0/ 211=1 DATA PTVV, STVV/2*0/ 212=1 DATA PBCAN, ASBCAN, DHMSP, DRMSR, DTRNR, PAMTPR/6*0.0/ 213=1 DATA PBCAN, ASBCAN, DHMSP, DRMSR, DTRNR, PAMTPR/6*0.0/ 214=1 DATA PFMTPR, SFMTPR, SAMTPR, ENCTEM, PHOTEM, SHOTEM/6*0.0/ 215=1 DATA PFMTPR, SFMTPR, SAMTPR, ENCTEM, PHOTEM, SHOTEM/6*0.0/ 215=1 DATA DMSP, DSMSP, ODHMSP, PNITG, AUX9, AUXI0/4*0.0, 0.186, 0.7/ 217=1 DATA DMSP, DHMSR, DPWSP, DSWSP, INTCPT/4*0.0, 2.587, 0.0, -0.4/ 217=1 DATA APPS, ASPS, AENSP, PMDIS, PMDFP/75*0.0/ 218=1 DATA APPS, ASPS, AENSP, PMDIS, PMDFP/75*0.0/ 219=1 DATA APMTRQ, DSMP, STREPT, REPST/3*0.0, .85, 0.0/ 219=1 DATA SMTRQ, DSMP, STREFF, REPT/2*0.0, .85, 0.0/ 221=1 DATA PPDIS, PPDFP, APSSP, ASSSP/4*0.0/ 222=1 DATA PPDIS, PPDFP, APSSP, ASSSP/4*0.0/ 223=1 DATA SPDIS, SPDFP, MAXMSP, TREP, DES/5*0.0/ 224=1 DATA SPTRQ, DSPP, SPMEFF, REPS/3*0.0, .95, 0.0/ 225=1 DATA SPTRQ, DSPP, SPMEFF, REPS, ALSMSP/2*0.0, .95, 3*0.0/ 225=1 DATA SPTRQ, DSPP, SPMEFF, REPP, ALSMSP/2*0.0, .95, 3*0.0/ 225=1 DATA SPTRQ, DSPP, SPMEFF, REPP, ALSMSP/2*0.0, .95, 3*0.0/ 225=1 DATA SPTRQ, DSPP, SPMEFF, REPP, ALSMSP/2*0.0, .95, 3*0.0/ 225=1 DATA SPTRQ, DSPP, SPMEFF, REPP, ALSMSP/2*0.0, .95, 3*0.0/ 225=1 DATA SPTRQ, DSPP, SPMEFF, REPP, ALSMSP/2*0.0, .95, 3*0.0/ 225=1 DATA SPTRQ, DSPP, SPMEFF, REPP, ALSMSP/2*0.0, .95, 3*0.0/ 226=1 DATA SPTRQ, DSPP, SPMEFF, REPP, ALSMSP/2*0.0, .95, 3*0.0/ 227=1 DATA SPTRQ, DSPP, SPMEFF, REPP, ALSMSP/2*0.0, .95, 3*0.0/ 228=1 DATA SPTRQ, DSPP, SPMEFF, REPP, ALSMSP/2*0.0, .95, 3*0.0/ 228=1 DATA SPTRQ, DSPP, SPMEFF, REPP, ALSMSP/2*0.0, .95, 3*0.0/ 228=1 DATA SPTRQ, DSPP, SPMEFF, REPP, ALSMSP/2*0.0/ 228=1 DATA DHMSPS, PAMPR, SAMPR, PFMPR, SFMPR/44*0.0/ 228=1 DATA DHMSPS, PAMPR, SAMPR, PFMPR, SFMPR/44*0.0/	DX3.AUX4.AUX5.AUXG.AUX7.AUXS.IDES/7%0/ ESS.RPSS.RES/5*0/ F0/ AN.DHMSP.DHMSR.DTRNR.PAMTPR/6*0.07  PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*0.07  PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*0.07  PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*0.07  PRESP.DSWSP.INTCPT/4*0.0.2.587.0.00.47  ENSP.FMDIS.PMDFP/5*0.07  REPPT.PTREFF.REPST/3*0.0.85.0.07  SMDIS.SMDFP/4*0.07  STREFF.REPT/2*0.0.85,0.07  APSSP.ASSSP/4*0.07  REPPP.PPMEFF.REPSP/3*0.095,0.07  PREPPP.PPMEFF.REPSP/3*0.095,0.07  PREPP.ALPMSP.ALSMSP/2*0.095,3*0.07  PREPF.REPP.ALPMSP.ALSMSP/2*0.095,3*0.07  REPPR.REPP.ALPMSP.HLSMSP/2*0.095,3*0.07  PREPR.REPP.ALPMSP.HLSMSP/2*0.095,3*0.07  REPR.REPP.ALPMSP.HLSMSP/2*0.095,3*0.07  REPR.REPP.ROWNTRNPOW.TURNUE/6*0.07  REPR.REPR.REPSOW.TRNPOW.TURNUE/6*0.07  REPR.REPR.REPR.SEMPR/44*0.07		
DATA RSMS.RPMS.RSSS.RPSS.RES/5*0/  DATA PTVV.STVV/2*0/  DATA APBCAN.ASBCAN.DHMSP.DRMSR.DTRNR.PAMTPR/6*0.0/  DATA FDR.WJCNST  1 1 10.88.0.3676/  DATA PFMTPR.SFMTPR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*0.0/  DATA PFMTPR.SFMTPR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6*0.0/  DATA DPMSP.DSMSP.DDHMSP.PNIIG.AUX9.AUX10/4*0.0,0.186.0.9/  DATA DHWSP.DHWSR.DPWSP.DSWSP.INTCPT/4*0.0.2.387,0.00.4/  DATA APPS.ASPS.AENSP.PMDIS.PMDFP/3*0.0/  DATA APMSP.ASMSP.SMDIS.SMDFP/4*0.0/  DATA APMSP.ASMSP.SMDIS.SMDFP/4*0.0/  DATA SMTRQ.DSMP.STREFF.REPT/2*0.0.885,0.0/  DATA PPDIS.FPDFP.APSSP.ASSSP/4*0.0/  DATA PPDIS.FPDFP.APSSP.ASSSP/4*0.0/  DATA SPDIS.SPDFP.REPPP.PMEFF.REPSP/3*0.0,.95,0.0/  DATA SPDIS.SPDFP.MAXMSP.TRCP.DES/5*0.0/  DATA SPDIS.SPDFP.MAXMSP.TRCP.DES/5*0.0/  DATA SPDIS.SPDFP.MAXMSP.AUSDW.TRNPOW.TURKUE/6*0.0/  DATA ALPWSP.ALSWSP.MAXWSP.AUSPOW.TRNPOW.TURKUE/6*0.0/  DATA ALPWSP.ALSWSP.MAXWSP.AUSPOW.TRNPOW.TURKUE/6*0.0/  DATA ALPWSP.ALSWSP.MAXWSP.AUSPOW.TRNPOW.TURKUE/6*0.0/  DATA DHWSPS.PAMPR.SAMPR.PMPR.SFMPR/44*0.0/  DATA DHWSPS.PAMPR.SAMPR.PMPR.SFMPR/44*0.0/	SSS, RPSS, RES/5*0/ RO7 RN, DHMSP, DRMSR, DTRNR, PAMTPR/6*0.07 ROPHMSP, PNTIG, AUX9, AUX10/4*0.0, 0, 186, 0.7 17 DPWSP, DSWSP, INTCPT/4*0.0, 2.587, 0.0, =0.47 ENSP, PMDIS, PMDFP/5*0.07 REPPT, PTREFF, REPST/3*0.0, .85, 0.07 SMDIS, SMDFP/4*0.07 STREFF, REPT/2*0.0, .85, 0.07 DPPWJ, DSFRT, SDIFP, DPSWJ/6*0.07 REPPP, PPMEFF, REPSP/3*0.0, .95, 0.07 REPPP, PPMEFF, REPSP/3*0.0, .95, 0.07 SPMEFF, REPP, ALPMSP/ALSMSP/2*0.0, .95, 3*0.07 SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0, .95, 3*0.07 RF, MAXWSP, AUXPOW, TRNPOW, TURNUE/6*0.07 RKS, K6, K7, K8, K9, K1070.18, -0.36, 1.25, 0.7575 2, 3*0.07 R, SAMPR, PFMPR, SFMPR/44*0.07		
DATA PTVV,STVV/2#0/  212=1 DATA APBCAN, ASBCAN, DHMSP, DRMSR, DTRNR, PAMTPR/6#0.0/  213=1 DATA FDR, WJCNST  +/10.88.0.3676/  DATA PFMTPR, SFMTPR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6#0.0/  215=1 DATA PFMTPR, SFMTPR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6#0.0/  215=1 DATA DHWSP, DSMSP, DDHMSP, PNTIG, AUXY, AUXT0/4#0.0, 0, 0, 186, U. 7. 1/  216=1 DATA DHWSP, DHWSR, DPWSP, DSWSP, INTCPT/4#0.0, 2, 387, U.0, -0.4/  217=1 DATA APPS, ASPS, AENSP, FMDIS, PMDFP/3#0.0/  218=1 DATA APMSR, ASMSP, SMDIS, SMDFP/4#0.0/  219=1 DATA APMSR, ASMSP, SMDIS, SMDFP/4#0.0/  220=1 DATA SMTRQ, DSMP, STREFF, REPT/2#0.0, .85, 0.0/  221=1 DATA DPFRT, PDIFP, DPFWJ, DSFRT, SDIFP, DPSWJ/6#0.0/  222=1 DATA PPDIS, PPDFP, APSSP, ASSSP/4#0.0/  223=1 DATA SPDIS, SPDFP, MAXMSP, TREP, DES/3#0.0/  224=1 DATA SFDIS, SPDFP, MAXMSP, TREP, DES/3#0.0/  225=1 DATA ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TURUUE/6#0.0/  227-1 DATA CLAUS, KS, K4, K5, K6, K7, K8, K9, K10/0, 18, -0.86, 1.25, 0.75/5  DATA DHMSPS, PAMPR, SAMPR, PFMPR, SFMPR/44*0.0/  225=1 DATA DHMSPS, PAMPR, SAMPR, PFMPR, SFMPR/44*0.0/  225=1 DATA DHMSPS, PAMPR, SAMPR, PFMPR, SFMPR/44*0.0/	**************************************		
DATA APBCAN, ASBCAN, DHMSP, DHMSR, DTRNR, PAMTPR/6*0.07  DATA FDR, WJCNST  +1 +710.88, 0.5676/  Z14=1 DATA PFMTPR, SFMTPR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6*0.07  Z15=1 DATA DPMSP, DSMSP, ODHMSP, PNTIG, ADXY, ADXIO/4*0.0, 0.186, 0.79.17  Z16=1 DATA DHWSP, DHWSR, DPWSP, DSWSP, INTCPT/4*0.0, 2.587, 0.0, -0.47  Z17=1 DATA APPS, ASPS, AENSP, PMDIS, PMDFP/5*0.0/  Z18=1 DATA APMSR, DSMP, REPPT, PTREFF, REPST/3*0.0, .85, 0.0/  Z19=1 DATA APMSP, ASMSP, SMDIS, SMDFP/4*0.0/  Z20=1 DATA SMTRQ, DSMP, STREFF, REPT/2*0.0, .85, 0.0/  Z21=1 DATA DPFRT, PDISP, DPPWJ, DSFRT, SDIFP, DPSWJ/6*0.0/  Z22=1 DATA PPDIS, PPDFP, APSSP, ASSSP/4*0.0/  Z23=1 DATA PPDIS, SPDFP, MAXMSP, TREP, DESWJ/6*0.0/, .95, 3*0.0/  Z24=1 DATA SFTRQ, DSPP, SPMEFF, REPSP, ALSMSP/2*0.0, .95, 3*0.0/  Z25=1 DATA ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TURQUE/6*0.0/  Z27=1 DATA ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TURQUE/6*0.0/  Z27=1 DATA ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TURQUE/6*0.0/  Z27=1 DATA ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TURQUE/6*0.0/  Z23=1 DATA ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TURQUE/6*0.0/  Z23=1 DATA DHMSPS, PAMPR, SAMPR, PFMPR, SFMPR/44*0.0/	PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6%0.07 CODHMSP.PNTIG.AUX9.AUX10/4%0.0.0.186.0.7.17 DPWSP.DSWSP.INTCPT/4*0.0.2.587.0.00.47 ENSP.FMDIS.PMDFP/5*0.07 REPPT.PTREFF.REPSI/3%0.0.85.0.07 STREFF.REPT/2%0.0.85.0.07 DPPWJ.DSFRT.SDIFP.DPSWJ/6*0.07 APSSP.ASSSP/4*0.07 REPPP.PPMEFF.REPSP/3*0.095.0.07 MAXMSP.TREP.DES/5*0.07 SPMEFF.REPP.ALPMSP.ALSMSP/2*0.095.3*0.07 SPMEFF.REPP.ALPMSP.ALSMSP/2*0.095.3*0.07 SPMEFF.REPP.ALPMSP.ALSMSP/2*0.095.3*0.07 SPMEFF.REPP.ALPMSP.ALSMSP/2*0.095.3*0.07 R.S.K6.K7.K8.K9.K10/0.180.36.1.25.0.75/5 2.3*0.07		
DATA FDR, WJCNST  +/10.38,0.5676/  Z14=1 DATA PFMTPR, SFMTPR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6%0.0/  DATA DPMSP, DSMSP, ODHMSP, PNTIG, AUXY, AUXIO/4%0.0,0.186,0.7/  Z16=1 DATA DHWSP, DHWSR, DPWSP, DSWSP, INTCPT/4%0.0,2.58/,0.0,-0.4/  Z17=1 DATA APPS, ASPS, AENSP, FMDIS, PMDFP/5%0.0/  Z18=1 DATA PMTRQ, DPMP, REPPT, PTREFF, REPST/3%0.0,.85,0.0/  DATA APMSP, ASMSP, SMDIS, SMDFP/4%0.0/  DATA SMTRQ, DSMP, STREFF, REPT/2%0.0,.85,0.0/  Z20=1 DATA DPFRT, PDIFP, DPPWJ, DSFRT, SDIFP, DPSWJ/6%0.0/  DATA PPDIS, PPDFP, APSSP, ASSSP/4%0.0/  DATA PPTRQ, DPPP, REPPP, PPMEFF, REPSP/3%0.0,.95,0.0/  Z24=1 DATA SPDIS, SPDFP, MAXMSP, TREP, DES/5%0.0/  DATA SPDIS, SPDFP, MAXMSP, TREP, DES/5%0.0/  DATA ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TURWUE/6%0.0/  DATA DHMSPB, PAMPR, SAMPR, PFMPR, SFMPR/44%0.0/  END	PR.SAMTPR.ENCTEM.PHOTEM.SHUTEM/6%0.07 DDHMSP.PNTIG.AUX9.AUX10/4%0.0.0.186.0.7.17 DPWSP.DSWSP.INTCPT/4*0.0.2.597.0.00.47 ENSP.FMDIS.PMDFP/5*0.07 REPPT.PTREFF.REPST/3%0.0.85.0.07 STREFF.REPT/2*0.0.85.0.07 DPPWJ.DSFRT.SDIFP.DPSWJ/6*0.07 APSSP.ASSSP/4*0.07 REPPP.PPMEFF.REPSP/3*0.095.0.07 SMAXWSP.TREP.DES/5*0.07 SPMEFF.REPP.ALPMSP.ALSMSP/2*0.095.3*0.07 SPMEFF.REPP.AUXPOW.TRNPOW.TURWUE/6*0.07 KS.K6.K7.K8.K9.K10/0.180.36.1.25.0.7575 2.3*0.07	I	=
#710.88,0.3676/  Z14=1 DATA PFMTPR,SFMTPR,SAMTPR,ENCTEM,PHOTEM,SHUTEM/6%0.0/  Z15=1 DATA DPMSP,DSMSP,ODHMSP,PNTIG,AUXY,AUX10/4%0.0,0.186,0.79.17  Z16=1 DATA DHWSP,DHWSR,DPWSP,DSWSP,INTCPT/4%0.0,2.58/,0.0,=0.4/  Z17=1 DATA APPS,ASPS,AENSP,FMDIS,PMDFP/5%0.0/  Z18=1 DATA PMTRQ,DPMP,REPPT,PTREFF,REPST/3%0.0,.85,0.0/  Z19=1 DATA APMSP,ASMSP,SMDIS,SMDFP/4%0.0/  DATA SMTRQ,DSMP,STREFF,REPT/2%0.0,.85,0.0/  Z21=1 DATA DPFRT,PDIFP,DPPWJ,DSFRT,SDIFP,DPSWJ/6%0.0/  Z21=1 DATA PPDIS,FPDPP,APSSP,ASSSP/4%0.0/  Z23=1 DATA PPDIS,FPDPP,REPPP,PMEFF,REPSP/3%0.0,.95,0.0/  Z24=1 DATA SFDIS,SPDFP,MAXWSP,TREP,DES/5%0.0/  Z25=1 DATA SFTRQ,DSPP,SPMEFF,REPP,ALPMSP,ALSMSP/2%0.0,.95,3%0.0/  Z25=1 DATA ALPWSP,ALSWSP,MAXWSP,AUXPOW,TRNPOW,TURRUEE/6%0.0/  Z27=1 DATA ALPWSP,ALSWSP,MAXWSP,AUXPOW,TRNPOW,TURRUEE/6%0.0/  Z27=1 DATA KI,K2,K3,K4,K5,K6,K7,K8,K9,K10/0.18,-0.36,1.25,0.7575  =1 0,70,0.439,1.02,3%0.0/  Z23=1 DATA DHMSPB,PAMPR,SAMPR,PFMPR,SFMPR/44%0.0/	ODHMSP,PNTIG,AUX9,AUX10/4*0.0,0.186,0.7.17 DPWSP,DSWSP,INTCPT/4*0.0,2.587,0.0,-0.47 ENSP,FMDIS,PMDFP/5*0.0/ REPPT,PTREFF,REPST/3*0.0,.95,0.0/ SMDIS,SMDFP/4*0.0/ STREFF,REPT/2*0.0,.85,0.0/ DPFWJ,DSFRT,SDIFP,DPSWJ/6*0.0/ APSSP,ASSSP/4*0.0/ REPPP,PMEFF,REPSP/3*0.0,.95,0.0/ MAXMSP,TREP,DES/5*0.0/ SPMEFF,REPP,ALPMSP,ALSMSP/2*0.0,.95,3*0.0/ SP,MAXWSP,AUXPOW,TRNPOW,TURWUE/6*0.0/ KS,K6,K7,K8,K9,K10/0.18,-0.36,1.25,0.7575 2,3*0.0/ R,SAMPR,PFMPR,SFMPR/44*0.0/	7 7 2	
DATA PFMTPR, SFMTPR, SAMTPR, ENCTEM, PHOTEM, SHUTEM/6*0.07  215=1	ODHMSP,PNTIG,AUX9,AUX10/4*0.0,0.186,0.7.17 DPWSP,DSWSP,INTCPT/4*0.0,2.587,0.0,-0.47 ENSP,FMDIS,PMDFP/5*0.0/ REPPT,PTREFF,REPST/3*0.0,.95,0.0/ SMDIS,SMDFP/4*0.0/ STREFF,REPT/2*0.0,.85,0.0/ DPFWJ,DSFRT,SDIFP,DPSWJ/6*0.0/ APSSP,ASSSP/4*0.0/ REPPP,PMEFF,REPSP/3*0.0,.95,0.0/ MAXMSP,TREP,DES/5*0.0/ SPMEFF,REPP,ALPMSP,ALSMSP/2*0.0,.95,3*0.0/ SP,MAXWSP,AUXPOW,TRNPOW,TURWUE/6*0.0/ KS,K6,K7,K8,K9,K10/0.18,-0.36,1.25,0.7575 2,3*0.0/ R,SAMPR,PFMPR,SFMPR/44*0.0/		
DATA DPMSP, DSMSP, DDHMSP, PNTIG, AUXY, AUXIO74*0.0, 0.186, 0.79 17  216=1  DATA DHWSP, DHWSR, DPWSP, DSWSP, INTCPT74*0.0, 2.587, 0.0, -0.47  217=1  DATA APPS, ASPS, AENSP, FMDIS, PMDFP75*0.07  218=1  DATA PMTRQ, DPMP, REPPT, PTREFF, REPST/3*0.0, .85, 0.07  219=1  DATA APMSP, ASMSP, SMDIS, SMDFP74*0.07  220=1  DATA SMTRQ, DSMP, STREFF, REPT72*0.0, .85, 0.07  221=1  DATA DPFRT, PDIFP, DPFWJ, DSFRT, SDIFP, DPSWJ/6*0.07  222=1  DATA PPDIS, PPDFP, APSSP, ASSSP/4*0.07  223=1  DATA SPDIS, SPDFP, MAXWSP, TREP, DES/5*0.07  224=1  DATA SPDIS, SPDFP, MAXWSP, TREP, DES/5*0.07  225=1  DATA SPTRQ, DSPP, SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0, .95, 3*0.07  226=1  DATA ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TURUQE/6*0.07  227=1  DATA KI, K2, K3, K4, K3, K6, K7, K8, K9, K1070.18, -0.36, 1.25, 0.7575  -1  **, -0.70, 0.489, 1.02, 3*0.07  233=1  DATA DHMSPB, PAMPR, SAMPR, PFMPR, SFMPR/44*0.07  END	ODHMSP,PNTIG,AUX9,AUX10/4*0.0,0.186,0.7.17 DPWSP,DSWSP,INTCPT/4*0.0,2.587,0.0,-0.47 ENSP,FMDIS,PMDFP/5*0.0/ REPPT,PTREFF,REPST/3*0.0,.95,0.0/ SMDIS,SMDFP/4*0.0/ STREFF,REPT/2*0.0,.85,0.0/ DPFWJ,DSFRT,SDIFP,DPSWJ/6*0.0/ APSSP,ASSSP/4*0.0/ REPPP,PMEFF,REPSP/3*0.0,.95,0.0/ MAXMSP,TREP,DES/5*0.0/ SPMEFF,REPP,ALPMSP,ALSMSP/2*0.0,.95,3*0.0/ SP,MAXWSP,AUXPOW,TRNPOW,TURWUE/6*0.0/ KS,K6,K7,K8,K9,K10/0.18,-0.36,1.25,0.7575 2,3*0.0/ R,SAMPR,PFMPR,SFMPR/44*0.0/		
DATA DHWSP, DHWSR, DPWSP, DSWSP, INTCPT/4*0.0,2.587,0.0,-0.47  DATA APPS, ASPS, AENSP, PMDIS, PMDFP/5*0.07  DATA PMTRQ, DPMP, REPPT, PTREFF, REPST/3*0.0,.85,0.07  DATA APMSP, ASMSP, SMDIS, SMDFP/4*0.07  DATA APMSP, ASMSP, SMDIS, SMDFP/4*0.07  DATA SMTRQ, DSMP, STREFF, REPT/2*0.0,.85,0.07  DATA DPRT, PDIFP, DPFWJ, DSFRT, SDIFP, DPSWJ/6*0.07  DATA PPDIS, FPDFP, APSSP, ASSSP/4*0.07  DATA PPTRQ, DPPP, REPPP, PPMEFF, REPSP/3*0.0,.95,0.07  DATA SPDIS, SPDFP, MAXWSP, TREP, DES/5*0.07  DATA SPTRQ, DSPP, SPMEFF, REPP, ALFMSP, ALSMSP/2*0.0,.95,3*0.07  DATA ALFWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TURQUE/6*0.07  DATA KI, K2, K3, K4, K5, K6, K7, K8, K9, K1070.18, -0.36,1.25,0.7575	DPWSP.DSWSP.INTCPT/4*0.0,2.58/,0.0,-0.4/ ENSP.FMDIS.PMDFP/5*0.0/ REPPT.PTREFF.REPST/3*0.0,.85,0.0/ .SMDIS.SMDFP/4*0.0/ STREFF.REPT/2*0.0,.85,0.0/ .DPPWU.DSFRT.SDIFP.DPSWJ/6*0.0/ .APSSP.ASSSP/4*0.0/ REPPP.PPMEFF.REPSP/3*0.0,.95,0.0/ .MAXMSP.TREP.DES/5*0.0/ SPMEFF.REPP.ALPMSP.ALSMSP/2*0.0,.95,3*0.0/ SPMEFF.REPP.ALPMSP.ALSMSP/2*0.0,.95,3*0.0/ SP,MAXWSP.AUXPOW.TRNPOW.TURWUE/6*0.0/ .K5.K6.K7.K8.K9.K10/0.18,-0.36.1.25,0.7575 2.3*0.0/ R.SAMPR.PFMPR.SFMPR/44*0.0/		
DATA APPS.ASPS.AENSP.PMDIS.PMDFP73*0.07  213=1 DATA PMTRQ.DPMP.REPPT.PTREFF.REPST/3*0.0,.85.0.07  219=1 DATA APMSP.ASMSP.SMDIS.SMDFP74*0.07  220=1 DATA SMTRQ.DSMP.STREFF.REPT/2*0.0,.85,0.07  221=1 DATA DPFRT.PDIFP.DPPWJ.DSFRT.SDIFP.DPSWJ/6*0.07  222=1 DATA PPDIS.FPDFP.APSSP.ASSSP/4*0.07  223=1 DATA PPTRQ.DPPP.REPPP.PPMEFF.REPSP/3*0.0,.95,0.07  224=1 DATA SFDIS.SPDFP.MAXMSP.TREP.DES/3*0.07  225=1 DATA SFTRQ.DSPP.SPMEFF.REPP.ALPMSP.ALSMSP/2*0.0,.98,3*0.07  226=1 DATA ALPWSP.ALSWSP.MAXWSP.AUXPOW.TRNPOW.TURWOE/6*0.07  227=1 DATA ALPWSP.ALSWSP.MAXWSP.AUXPOW.TRNPOW.TURWOE/6*0.07  235=1 DATA KI:K2.K3.K4.K3.K6.K7.K8.K9.K1070.180.36.1.25.0.7575  1 1-0.70.0.489.1.02.3*0.07  DATA DHMSPS.PAMPR.SAMPR.PFMPR.SFMPR/44*0.07  END	ENSP.FMDIS.PMDFP/5*0.0/ REPPT.PTREFF.REPST/3*0.0,.95.0.0/ .SMDIS.SMDFP/4*0.0/ STREFF.REPT/2*0.0,.85.0.0/ .DPPWU.DSFRT.SDIFP.DPSWU/6*0.0/ .APSSP.ASSSP/4*0.0/ REPPP.PPMEFF.REPSP/3*0.0,.95.0.0/ .MAXMSP.TREP.DES/5*0.0/ SPMEFF.REPP.ALPMSP.ALSMSP/2*0.0,.95.3*0.0/ SP,MAXWSP.AUXPOW.TRNPOW.TURWUE/6*0.0/ .K5.K6.K7.K8.K9.K10/0.180.36.1.25.0.7575 2.3*0.0/ R.SAMPR.PFMPR.SFMPR/44*0.0/		
DATA PMTRQ.DPMP,REPPT,PTREFF,REPST/3*0.0,.85,0.0/ 219=1 DATA APMSP,ASMSP,SMDIS,SMDFP/4*0.0/ 220=1 DATA SMTRQ.DSMP,STREFF,REPT/2*0.0,.85,0.0/ 221=1 DATA DPFRT,PDIFP,DPFWJ,DSFRT,SDIFP,DPSWJ/6*0.0/ 222=1 DATA PPDIS,FPDFP,APSSP,ASSSP/4*0.0/ 223=1 DATA PPTRQ.DPPP,REPPP,PPMEFF,REPSP/3*0.0/,95,0.0/ 224=1 DATA SPDIS,SPDFP,MAXWSP,TREP,DES/5*0.0/ 225=1 DATA SPTRQ.DSPP,SPMEFF,REPP,ALPMSP,ALSMSP/2*0.0/,93,3*0.0/ 226=1 DATA ALPWSP,ALSWSP,MAXWSP,AUXFOW,TRNPOW,TORQUE/6*0.0/ 227=1 DATA K1,K2,K3,K4,K5,K6,K7,K8,K9,K10/0.18,-0.36,1.25,0.75/5	REPPT, PTREFF, REPST/3*0.0,.85,0.0/ .SMDIS, SMDFP/4*0.0/ .STREFF, REPT/2*0.0,.85,0.0/ .DPPWJ, DSFRT, SDIFF, DPSWJ/6*0.0/ .APSSP, ASSSP/4*0.0/ .REPPP, PPMEFF, REPSP/3*0.0,.95,0.0/ .MAXMSP, TREP, DES/5*0.0/ .SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0,.95,3*0.0/ .SPMEFF, REPP, AUXPOW, TRNPOW, TURQUE/6*0.0/ .K5, K6, K7, K8, K9, K10/0.18, -0.86,1.25,0.75/5 2,3*0.0/ .SAMPR, PFMPR, SFMPR/44*0.0/	T:12 :	
DATA APMSP.ASMSP.SMDIS.SMDFP/4*0.0/  DATA SMTRQ.DSMP.STREFF.REPT/2*0.0.85,0.0/  DATA DPFRT.PDIFP.DPFWJ.DSFRT.SDIFP.DPSWJ/6*0.0/  DATA PPDIS.FPDFP.APSSP.ASSSP/4*0.0/  DATA PPTRQ.DPPP.REPPP.PPMEFF.REPSP/3*0.0.95,0.0/  DATA SPDIS.SPDFP.MAXWSP.TREP.DES/5*0.0/  DATA SPTRQ.DSPP.SPMEFF.REPP.ALPMSP.ALSMSP/2*0.0.95,3*0.0/  DATA ALPWSP.ALSWSP.MAXWSP.AUXPOW.TRNPOW.TURRUE/6*0.0/  DATA ALPWSP.ALSWSP.MAXWSP.AUXPOW.TRNPOW.TURRUE/6*0.0/  DATA K1.K2.K3.K4.K3.K6.K7.K8.K9.K10/0.180.36.1.25.0.7375	SMDIS.SMDFP/4*0.0/ STREFF.REPT/2*0.0,.85,0.0/ DPFWJ.DSFRT.SD1FP.DPSWJ/6*0.0/ APSSP.ASSSP/4*0.0/ REPPP.PPMEFF.REPSP/3*0.0,.95,0.0/ MAXMSP.TREP.DES/5*0.0/ SPMEFF.REPP.ALPMSP.ALSMSP/2*0.0,.95,3*0.0/ SPMEFF.REPP.ALPMSP.ALSMSP/2*0.0,.95,3*0.0/ SP,MAXWSP.AUXPOW.TRNPOW.TURQUE/6*0.0/ KS.K6.K7.K8.K9.K10/0.180.36.1.25.0.75/5 2.3*0.0/		
220=1 DATA SMTRQ.DSMP.STREFF.REPT/2*0.0.85,0.0/ 221=1 DATA DPPRT.PDIPP.DPPWJ.DSFRT.SDIFP.DPSWJ/6*0.0/ 222=1 DATA PPDIS.PPDPP.APSSP.ASSSP/4*0.0/ 223=1 DATA PPTRQ.DPPP.REPPP.PPMEFF.REPSP/3*0.0.95,0.0/ 224=1 DATA SPDIS.SPDFP.MAXWSP.TREP.DES/5*0.0/ 225=1 DATA SPTRQ.DSPP.SPMEFF.REPP.ALPMSP.ALSMSP/2*0.0.95,3*0.0/ 225=1 DATA ALPWSP.ALSWSP.MAXWSP.AUXPOW.TRNPOW.TURRUE/6*0.0/ 226=1 DATA ALPWSP.ALSWSP.MAXWSP.AUXPOW.TRNPOW.TURRUE/6*0.0/ 227=1 DATA K1.K2.K3.K4.K3.K6.K7.K8.K9.K10/0.180.36.1.25.0.7575 =1 +,-0.70.0.439,1.02.3*0.0/ 223=1 DATA DHMSPB.PAMPR.SAMPR.PFMPR.SFMPR/44*0.0/ 223=1 DATA DHMSPB.PAMPR.SAMPR.PFMPR.SFMPR/44*0.0/	STREFF, REPT/2*0.0,.85,0.0/ , DPPWJ, DSFRT, SDIFP, DPSWJ/6*0.0/ , APSSP, ASSSP/4*0.0/ REPPP, PPMEFF, REPSP/3*0.0,.95,0.0/ , MAXMSP, TREP, DES/5*0.0/ SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0,.93,3*0.0/ SP, MAXWSP, AUXPOW, TRNPOW, TURRUUE/6*0.0/ , K5, K6, K7, K8, K9, K10/0.18, -0.86,1.25,0.7575 2,9*0.0/ R, SAMPR, PFMPR, SFMPR/44*0.0/	7 2	
DATA DPPRT, PDIFP, DPPWJ, DSFRT, SDIFP, DPSWJ/6*0.0/ 2021 DATA PPDIS, PPDPP, APSSP, ASSSP/4*0.0/ 223=1 DATA PPTRQ, DPPP, REPPP, PPMEFF, REPSP/3*0.0, .95,0.0/ 224=1 DATA SPDIS, SPDFP, MAXWSP, TREP, DES/5*0.0/ 225=1 DATA SPTRQ, DSPP, SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0, .95,3*0.0/ 226=1 DATA ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TURQUE/6*0.0/ 227=1 DATA K1, K2, K3, K4, K5, K6, K7, K8, K9, K10/0.18, -0.36,1.25,0.75/5 =1 *, -0.70,0.499,1.02,3*0.0/ 223=1 DATA DHMSPB, PAMPR, SAMPR, PFMPR, SFMPR/44*0.0/ END	.DPPWJ.DSFRT.SD1FP.DPSWJ/6*0.0/ .APSSP.ASSSP/4*0.0/ REPPP.PPMEFF.REPSP/3*0.0,.95.0.0/ .MAXMSP.TREP.DES/5*0.0/ SPMEFF.REPP.ALPMSP.ALSMSP/2*0.0,.95.3*0.0/ SP,MAXWSP.AUXPOW.TRNPOW.TURQUE/6*0.0/ .K5.K6.K7.K8.K9.K10/0.180.36.1.25.0.7575 2.3*0.0/ R.SAMPR.PFMPR.SFMPR/44*0.0/	_	
222=1 DATA PPDIS, PPDFP, APSSP, ASSSP/4*0.0/ 223=1 DATA PPTRQ, DPPP, REPPP, PPMEFF, REPSP/3*0.0, .95,0.0/ 224=1 DATA SPDIS, SPDFP, MAXMSP, TREP, DES/5*0.0/ 225=1 DATA SPTRQ, DSPP, SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0, .95,3*0.0/ 226=1 DATA ALPMSP, ALSMSP, MAXMSP, AUXPOW, TRNPOW, TURRUE/6*0.0/ 227=1 DATA K1, K2, K3, K4, K5, K6, K7, K8, K9, K10/0.18, -0.36,1.25, 0.75/5 =1 *, -0.70,0.439,1.02,3*0.0/ 223=1 DATA DHMSPB, PAMPR, SAMPR, PFMPR, SFMPR/44*0.0/ END	APSSP, ASSSP/4*0.0/ REPPP, PPMEFF, REPSP/3*0.0,.95,0.0/ , MAXWSP, TREP, DES/5*0.0/ SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0,.93,3*0.0/ SP, MAXWSP, AUXPOW, TRNPOW, TURRUUE/6*0.0/ , K5, K6, K7, K8, K9, K10/0.18, -0.36,1.25,0.7575 2,3*0.0/ R, SAMPR, PFMPR, SFMPR/44*0.0/	- :	
223=1 DATA FPTRQ,DPPP,REPPP,PPMEFF,REPSP/3*0.0,.95,0.0/ 224=1 DATA SPDIS,SPDFP,MAXMSP,TREP,DES/5*0.0/ 225=1 DATA SPTRQ,DSPP,SPMEFF,REPP,ALPMSP,ALSMSP/2*0.0,.93,3*0.0/ 226=1 DATA ALPWSP,ALSWSP,MAXWSP,AUXPOW,TRNPOW,TORQUE/6*0.0/ 227=1 DATA K1,K2,K3,K4,K3,K6,K7,K8,K9,K10/0.12,-0.36,1.25,0.7575 21 >,-0.70,0.439,1.02,3*0.0/ 223=1 DATA DHMSPB,PAMPR,SAMPR,PFMPR,SFMPR/44*0.0/ 223=1 DATA DHMSPB,PAMPR,SAMPR,PFMPR,SFMPR/44*0.0/	REPPP, PPMEFF, REPSP/3*0.0,.95,0.0/ , MAXWSP, TREP, DES/5*0.0/ , PMEFF, REPP, ALPMSP, ALSMSP/2*0.0,.93,3*0.0/ , PMAXWSP, AUXPOW, TRNPOW, TORWOL/6*0.0/ , K5, K6, K7, K8, K9, K10/0.18, -0.36,1.25,0.75/5 2,3*0.0/ R, SAMPR, PFMPR, SFMPR/44*0.0/		
224=1 DATA SFDIS, SPDFP, MAXMSP, TREP, DES/5*0.0/ 225=1 DATA SFTRQ, DSPP, SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0, .93, 3*0.0/ 226=1 DATA ALPMSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TURQUE/6*0.0/ 227=1 DATA K1, K2, K3, K4, K5, K6, K7, K8, K9, K10/0.12, -0.36, 1.25, 0.7575	MAXMSP, TREP, DES/5*0.07 SPMEPF, REPP, ALPMSP, ALSMSP/2*0.0,.93,8*0.07 SP, MAXWSP, AUXPOW, TRNPOW, TURRUUE/6*0.07 K5, K6, K7, K8, K9, K10/0.18, -0.86,1.25,0.7575 2,3*0.07 R, SAMPR, PFMPR, SFMPR/44*0.07		
225=1 DATA SFTRQ,DSPF,SFMEFF,REFF,ALFMSP,ALSMSP/2*0.0,.95,3*0.0/ 226=1 DATA ALPWSP,ALSWSP,MAXWSP,AUXFOW,TRNPOW,TURQUE/6*0.0/ 227=1 DATA K1,K2,K3,K4,K3,K6,K7,K8,K9,K10/0.18,-0.36,1.25,0.7575 =1 +,-0.70,0.489,1.02,3*0.0/ 223=1 DATA DHMSFB,FAMPR,SAMPR,FFMPR,SFMPR/44*0.0/ 223=1 END	SPMEFF, REPP, ALPMSP, ALSMSP/2*0.0,.93,3*0.0/ SP, MAXWSP, AUXPOW, TRNPOW, TORWOE/6*0.0/ .K3, K6, K7, K8, K9, K10/0.18, -0.86,1.25,0.75/5 2/3*0.0/ R, SAMPR, PFMPR, SFMPR/44*0.0/		
226=1 DATA ALPWSP,ALSWSP,MAXWSP,AUXPOW,TRNPOW,TORQUE/6*0.07 227=1 BATA K1,K2,K3,K4,K3,K6,K7,K8,K9,K1070.18,-0.86,1.25,0.7575 =1 +,-0.70,0.489,1.02,3*0.07 223=1 DATA DHMSPB,PAMPR,SAMPR,PFMPR,SFMPR/44*0.07 223=1 END	SP,MAXWSP,AUXPOW,TRNPOW,TORWOE/6*0.07 .K3,K6,K7,K8,K9,K10/0.18,-0.36,1.25,0.7575 2/3*0.07 R,SAMPR,PFMPR,SFMPR/44*0.07		
227=1	.K3.K6.K7.K8.K9.K10/0.180.36.1.25.0.7575 2/3*0.0/ 1.SAMPR.PFMPR.SFMPR/44*0.0/		
	2,3*0.0/ 7,3AMPR,PFMPR,SFMPR/44*0.0/		
223-1 DATA DHMSPB. PAMPR. SAMPR. PFMPR. SFMPR/44*0.0/	7,SAMPR,PFMPR,SFMPR/44*0.0/		· · · · · · · · · · · · · · · · · · ·
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STORAGE REGULERMENTS FOR MODULE SRITS:

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	MAXIMUM STACK SIZE	- COOCEH	140	
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1	SUBROUTINE DNSHFT .
1-5	INCLUDE(:F2:COMMON.FOR)
<del>-2=1</del>	INTEGER#4 RESULT, MASK(16), NAME
3=1	INTEGER#4 SIT.BITI.BITZ.BIT3.BIT4.BIT5.BIT6.BIT7.BIT8.BIT7
4=1	INTEGER#4 BITTO, BITTI, BITT2, BITT3, BITT4, BITT5, BITT6, BITT7, BITT8
<del>5=1</del>	INTEGER#4 BIT20, BIT21, BIT22, BIT23, BIT24, BIT25, BIT26, BIT27, BIT28
6=1	INTEGER#4 BIT30, BIT31, BIT32, BIT33, BIT34, BIT35, BIT36, BIT37, BIT38
- <del>7=1</del>	INTEGER#4 BIT40, BIT41, BIT42, BIT43, BIT44, BIT45, BIT45, BIT47, BIT48
3=1	INTEGER*4 B1719, B1729, B1739, B1749
التنخ	INTEGER#4 BEGIN1, BEGIN2, BEGIN3, BEGIN4, BEGIN5, BEGIN5, BEGIN7, BEGIN8
10=1	INTEGER#4 BEGN9, BEGN10, BEGN11, BEGN12, BEGN13, BEGN14, BEGN15, BEGN16
1141	INTEGER#4 WIDTHI, WIDTH2, WIDTH3, WIDTH4, WIDTH5, WIDTH6, WIDTH7, WIDTH5
12=1	INTEGER*4 WIDT9, WIDT10, WIDT11, WIDT12, WIDT13, WIDT14, WIDT15, WIDT16
13=1	INTEGER*4 JCARDI, JCARD2, JCARD3, JCARD4, JCAPD5, JCARD5, JCARD7, JCARD9
14-1	INTEGER#4 JCAR9, JCAR10, JCAR11, JCAR12, JCAR13, JCAR14, JCAR15, JCAR15
15=1	INTEGER*4 DG1.DG2.DG3.DG4.DG5.DG5.DG7.DG8.DG9.DG10
16=1	INTEGER*4 DG11, DG12, DG13, DG14, DG15, DG16, DG17, DG18, DG19, UG20
17=1	INTEGER#4 DG21,DG22,DG23,DG24,DG25,NORMAL,POWER
16=1	INTEGER*4 DG26, DG27, DG28, DG29, DG30
19=1	INTEGER*4 WIDTH, BEGIN, END, RMASK, I, K
20=1	LOGICAL*4 MSSF, TSSF, GSSF, BKNPSF, FGSCSF, INEPSF
21=1	LOGICAL*4 HEUTSF, CBCLSF, LBRPSF, LBSPSF, LPCPSF
22=1	LOGICAL*4 LSCPSF, RFBPSF, LEOPSF, LFHLSF, LSHLSF
23=1	LOGICAL*4 TBIT, LSPPSF, FIRESF
4=1	LUGICHERA PISCSF, PZSCSF, P3SCSF, P4SCSF, P5SCSF
.5=1	LOGICAL*4 SISCSF, S2SCSF, S2SCSF, S4SCSF, S5SCSF
26-1	LOGICAL** LYSVSF, LCSVSF, HVSVSF, HCSVSF
27=1	LOGICAL#4 AEBPSF,SEWPSF,HBPVSF,FEUPSF,PGCSSF
13-1	LOGICAL#4 ROLSSF, ESTRINS, SETRINS, INTIAL, SETINE
27=1	LOGICAL#4 APBCSF, ASDCSF, DHMHSF, DHMLSF, DHMRSF, DTRNSF
30=1	LOGICAL*4 FAMASE, PAMESE, PEMASE, PEMESE, SEMASE, SEMASE
31=1	LOGICAL*4 SAMHSF, SAMLSF, ENCTSF, PHOTSF, SHOTSF
32-1	LOGICAL#4 MOGPCC, MLTSSP, RENTRY
<del>33-1</del>	LOGICAL*4 NOFAN, FADPM, FROPM, FIZOPM, FIIME, NOLICH
34-1	LOGICALY4 AENSE, AESSE, AEMSE, ASSSE, ASMSE, AEWSE, ASWSE
<del>35=1</del>	INTEGER*4 PATVV, PPTVV, SATVV, SPTVV
36-1	INTEGER*4 IAPBON, IASBON, IDHMSP, IDHMSR, IPAMPR, IPFMPR
37-1	INTEGER*4 ISFMPR, ISAMPR, IENCTM, IPHOTM, ISHOTM, IDTKNR
38-1	INTEGER*4 TRNDIR
37=1	INTEGER*4 DIGIN(3), SUSMSG, NSUSMG
40=1	INTEGER#4 LAND, TRNSTN, SEA, PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW
41-1	INTEGER#4 TEST:, TEST:, TEST:, HYDPSS, HYNDPS, ENGNON, ENGNSG
42=1	INTEGER#4 CKPUMP, CKRAMP, CKPLST, CKRLS)
43=1	INTEGER#4 CKPSLT, CKRSL1, CKRSL2
44=1	INTEGER*4 IAENSP, IAPMSP, IASMSP, IAPSSP, IASSSP, IAPWSP, IASWSP
45=1 46=1	INTEGER*4 DIRST, PRMOOP
47-1	INTEGER+4 TDELAY, TIMER, DMOOP, PDMOOP, DIGOUT(8)
	INTEGER*4 SECFOF, PCFWNP, BLGFON
49=1	INTEGER*4 OCTD. ORCLSE, GOTD. GROPEN, PCFWDP, ELGOPF, SLOWER
<del>47=1</del>	INTEGER*4 SUDOWN, DLCVV, DHCVV, MNDFON, MDFON, TIKKSTF, SURISE
, -	INTEGER*4 EPRBLY, DTDGS, PDTDGS, PTDGS
1-1	INTEGER*4 AUXI, AUX2, AUX3, AUX4, AUX5, AUX5, AUX5, AUX5, IDES
52-1	INTEGER#4 MSMS, RPMS, RSSS, RPSS, RES
55-1	INTEGER#4 PTVV,STVV
<b>5</b> 4=1	REAL#4 APBCAN, ASBCAN, DIMISE, DHRSK, DTRNK, PARTER

-55≃1	REAL*4 FDR, WJCNST, INTCPT(-1:1)
<del>56-1</del>	REAL *4 PEMTER, SEMTER, SAMTER, ENCTEM, PHOTEM, SHOTEM
)5 <del>7=1</del>	REAL * 4 BPMSF, DSMSP, ODHMSP, FNT10, AUX9, AUX10
<del>-53=1</del>	REAL*4 DHWSP, DHWSR, DPWSP, DSWSP
<del>-59=1</del>	REAL®4 APPS, ASPS, AENSP, PMDIS, PMDPP
<del>-60=1</del>	REAL+4 PHTROVEPHPV REPPTVPTREFYVREPST
<del></del>	REAL+4 APMOP, ASMSP, SMDIS, SMDFP
—6. 3 <del>=1</del>	REAL+4 SMTRQ. DSMP. STREFF, REPT
<del>-63≈1</del> -64 <del>≈1</del>	REAL+4 PPERT, PRICE, AROOF, AROOF,
- <del>(14-1</del>	REAL*4 PPBIS, PPBFP, APSSP, ASSSP REAL*4 PPTRQ, SPPP, REPPP, PPMEFF, REPSP
-66=1	REAL*4 SPRIS SPRICE MAXMSP TREP DES
- <del>67-1</del>	REAL#4 SPTRR, DSPP, SPMEFF, REPP, ALPMSP, ALSMSF
-68=1 	REAL*4 ALPUSP ALSUSP AXUSP AUXPOW TRAPOW TERBUE
-69=1	REAL#4 KI x K2 x K3 x K4 x K5
<del>-70=1</del>	NEAL # 4 M1 M4 M5 M6 M7 * M8 M9
- <del>71</del> 1	REAL #4 - M19 v M15 v M15 v M16 v M17 v M18 v M19 v M20
	REAL #4 M21, M22, M23, M24, M26, M27, M26
<del>79-1</del>	REAL*4 M29, M30, M31, M32, M34
-74=1	REAL*4 BHMSPB(4), PAMPR(10), SAMPR(10), PPMPR(10), SPMPR(10)
75=1	INTEGER 4 M2 M3 M10 M11 M12
<del>76=1</del>	INTEGER*4 M35.M36.M37.M38.M39.M40
70-1 -77=1	INTEGER#4 M41: M42: M43: M44: M45: M46: M47: M48: M47
- <del>78-1</del>	COMMON /BITFNC/ RESULT, MASK, NAME
- <del>79-1</del>	COMMON /BITFNC/ LIT, EITI, EITZ, BIT3, EIT4, EITS, EITE, BIT7, DITC, EITF
<del>- 20=1</del>	COMMON /BITFNC/ BITIO, BITI1, BIT12, BIT13, BIT14, BIT13, BIT16, BIT17
- <del>81=1</del>	COMMON /BITPNC/ E1720, BIT21, BIT22, BIT23, E1724, E1725, E1726, E1727
€2 <del>-1</del>	COMMON /BITFNC/ SITSO-BITS1-BITS2-BITS3-BITS4-BITSS-BITSA-BITS7
38**1	COMMON /BITPNC/ BIT40, BIT41, BIT42, BIT43, BIT44, BIT43, BIT46, BIT46, BIT47
<del>-04-1</del>	
-85 <del>-1</del>	COMMON /BITTNC/ BEGIN1, BEGIN2, BEGINS, DEGINA, DEGINS, DEGINA, SEGINT
86-1	COMMON /BITFNC/ BEON9, BEON10, BEON11, BEON12, SEON13, SEON14, SEON15
<del>-37-1</del>	CONMON /BITTNO/ WIDTH1, WIDTH2, WIDTHS, WIDTH4, WIDTH5, WIDTH6, WIDTH7
<del>-38-1</del>	COMMON /BITTENC/ WIDT9, WIDT10, WIDT11, WIDT12, WIDT13, WIDT14, WIDT15
39-1	COMMON /BITTNC/ BEDINS, BEONIS, WIDTHS, WIDTLE, JCARDS, JCARIS
<del>-90-1</del>	COMMON /BITFNC/ JCARD1, JCARD2, JCARD3, JCARD4, JCARD5, JCARD6, JCARD7
<del>-91=1</del>	COMMON /BITFNC/ JCAR9, JCAR10, JCAR11, JCAR12, JCAR13, JCAR14, JCAR15
<del>- 52=1</del>	COMMON /BITFNC/ DG1: DG2, DG3, DG4, DG3, DG6, DG7, DG3, DG9, DG10
- <del>98-1</del>	CUMMON /BITPNC/ DOI:, DOI2, DOI3, DOI4, DOI5, DOI6, DOI7, DOI3, DOI?, DG2
<del>-94=1</del>	COMMON /BITTNC/ D021, D022, D0 23, D024, D025, NORMAL, POWER
<del>- 95-1</del>	COMMON /BITFNC/ DG26, DG27, DG28, DG29, DG30
<del>- 76-1</del>	- COMMON /91TFNC/ WISTH, BEGIN, END, RMASK, I, K
<del></del>	COMMON /ERROR/MSSF, TSSF, GSSF, EKNESF, FGSCSF, INDESF
<del>- 73=1</del>	COMMON /ERROR/ HEOTSM, LBCLSF, LBRPSF, LBSPSF, LPCPSF
<del>- 99-1</del> -	- COMMON /ERROR/ LSCPSF.KFEPSF.LEOPSF.LPHLSF.LPHLSF
100=1-	COMMON /ERROR/ LSFFSF, FIRESF
101=1	COMMON /ERROR/ PISCSP, PZSCSF, PSSCSF, PASCSF, PSSCSF
102=1	COMMON /ERROR/ S1SCSF, S2SCSF, S3SCSF, S4SCSF, S5SCSF
103=1	COMMON TERRORY LVSVSFTLCSVSFTHVSVSFTHCSVSF
104=1	GOMMON /ERROR/ AEDPSP-SEMPSP-HBPVSF-FEBPSF-POGSSF
105=1	
106=1	COMMON /ERROR/ APBC 3F+ASDESF+ DHMHSF+ DHMLSF+ DHMRSF+ DTRNSF
107-1	- COMMON /ERROR/ FAMHSF, PAMLSF, PFMHSF, PFMLSF, SFMHSF, SFMLSF
` <del>00=1</del>	- COMMON /ERROR/ SAMISEVSAMLSEVENCTSEVEHOTSEVSHOTSE
<del>)9-1</del>	COMMON /ERROR/ MODFOU, MLTSSP, RENTRY
110=1-	COMMON /ERROR/ NOFANIF: OFFIFEOPM, F126FM, FT1ME, NCL 1CH
111-1	COMMON /ERROR/ ENSE, APSSE, APMSE, ASSSE, ASMSE, AFWSE, ASWSE
-1-1- <del>2-1</del> -	COMMON /CINCUT/ IAPBON, IASSON, ICHMSP, IDHMSR, IPAMPR, IFFMPR

1	13=1	COMMON /CINCUT/ ISFMPR, ISAMPR, IENCTM, IPHOTM, ISHOTM, IDTRNR
1	4=1	COMMUN 7CINOUT/ TRNUIR.DIGIN.DIGUOT,SUSMSG.NSUSMG
	12=1	COMMON /CINOUT/ LAND, TRNSTN, SEA, PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW
Ī	15=1	COMMON /CINODI/ TEST1, TEST2, TEST3, HYBPSS, HYNDPS, ENGNOW, ENGMSG
1	17=1	COMMON /CINOCT/ CKPOMP, CKRAMP, CKPLST, CKRLST
1	18=1	COMMON /CINOUT/ CKPSLT, CKRSL1; CKRSL2
-	19-21	COMMON /CINOUT/ TAENSP, TAPMSP, TASMSP, TAPSSP, TASSSP, TAPWSP, TASWSP
	20=1	COMMON /CINOUT/ DIRST.PRMOUP, ERRDLY, DIDGS, PDTDGS, PTDGS
_	21=1	COMMON /CINOUT/ TDELAY, TIMER, DMOOP, PDMOOP
_	22=1	COMMON /CINOUT/ SECFOF, PCFWNF, BLGPON
_	23=1	COMMON /CINOUT/ GCTD.ORCESE.GOTD.GRUPEN.PCFWEP.DLGOFF.SLUWER
_	24=1	COMMON /CINOUT/ SUDOWN, DLCVV, DKCVV, MNDPON, MBPON, TRKSTP, SURISE
_	20=1	COMMON /CINOUT/ PATVV, PETVV, SATVV, SETVV
_	26=1	COMMON /CINOUT/ AUXI, AUX2, AUX3, AUX4, AUX5, AUX5, AUX7, AUX8, IDES
_	27-1	COMMON /CINCUT/ RSMS, RFMS, RSSS, RFSS, RES
_	23×1	COMMON /CINOUT/PIVV.STVV
_	29=1	COMPON /CALC/ APDCAN, ASBCAN, DHMSP, DHMSR, DTRNR, PAMTPR
_	30=1	COMMUN /CALC/ PDR, WJCNST
_	31=1	COMMON /CALC/ PENTER, SHMTPR, SAMTPR, ENCTEM, PHOTEM, SHOTEM
	32=1	COMMON /CALC/ DPMSP, DSMSP, ODFMSP, PNT1G, AUX9, AUX10
_	33=1	COMMON /CALC/ DHWSP, DHWSR, DPWSP, DSWSP, INTOFT
	34*1	COMMON /CALC/ APPS, ASPS, AENSP, PMDIS, PMDFP
_	33=1	COMMON /CALC/ PMTRQ.DPMP.REPPT.PTREFF.REPST
_	36=1	COMMON /CALC/ APMSP, ASMSP, SMDIS, SMDPP
_1	37=1	COMMON /CALC/ SMTRQ, DSMP, STREFF, REPT
_	38=1	COMMON /CALC/ DFFRT, PDIFF, DPPWJ, DSFRT, SDIFF, DPSWJ
_1	37-1	COMMON /CALC/ PPDIS, PPDIPF, APSSP, ASSSP
	*©≖ <u>1</u>	COMMON /CALC/ PPTRQ.DPPP.REPPP.PPMEFF.REPSP
`	·1=1	COMMON /CALC/ SPDIS, SPDFP, MAXMSP, TREP, DES
	42-1	COMMON /CALC/ SPTRQ.DSPP.SPMEFF.REPP.ALPMSP.ALSMSP
1	43≖1	COMMON /CALC/ ALPWSP, ALSWSP, MAXWSP, AUXPOW, TKNPOW, TORQUE
1	44=1	COMMON TCALCT KI, KZ, K3, K4, K5, K6, K7, K8, K9, K10
1	45=1	COMMON /CALC/ DHMSPD, PAMPR, SAMPR, PEMPR, SEMPR
1	46=1	COMMON 7MOUT7 MITH2TM3TM4TMSTM6TM7TM3TM9TM10
	47=1	COMMON 7MOUTY M11,M12,M13,M14,M15,M16,M17,M18,M19,M20
-	45=1	COMMON 7MOUT7 M21,M22,M23,M24,M25,M26,M27,M28,M29,M30
_	49=1	COMMON 7MOUT/ M31, M32, M33, M34, M35, M36, M37, M38, M39, M40
	.50=1	COMMON 7MOUT7 M41, M42, M43, M44, M45, M46, M47, M48, M49, M50
		TEST TO SEE IF THE SHIFT IS ALLOWABLE
	<u> </u>	
	51	IF(.NOT.FTIME) THEN
	52	FFDR=10.48
	.53	DPMSP=APSSP*FFDR
	· 54	DSMSF=ASSSF*FFDR
	.55	IF((UPMSP.G1.2700).OR.(DSMSP.GT.2700)) THEN
	.56	SETINE FALSE.
	.57	RETURN
1	38	ENDIF
	<del></del>	1) CONTAINE DE LA TRANCE
	C"	DISENBAGE CLUTCHES
_	U	
/	( <del>59</del>	FTIME=.TRUE.
	4	BLCVV=0
	.1	DHCVV=0
	62	ENDIF
1		
		A. LEN. D. L. P. B.
		CHECK TO SEE IF CLUTCHES ARE SYNCHED

C	•
7 13	FDR=10.48
- ( )**····	ALPMSP=APSSP#FDR
765	ALSMSF=ASSSP#FDR .
166	TF ( (ADS (ALPMSP-APMSP), LT. 400), AND. (ADS (ALSMSP-ASMSP), LT. 400)) THEN
	BHCVV=Q
160	DLCVV=65535
169	SFTINP-: FALSE.
<del>170</del>	PTBGS=PDTBGS
<del>171</del>	NCLTCHFALSE.
172	FTIME=: FALSE:
<del>173</del>	ENDIF
<del>175</del>	- RETURN
	·
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<b>—</b>	
-1	
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## FF2: DNSHFT, FOR STORAGE REQUIREMENTS FOR MODULE DNSHFT: CODE AREA SIZE 001E3H 483D CONSTRUT AREA SIZE 00016H **72**0 VARIABLE AREA SIZE 00008H स्य MAXIMUM STACK SIZE HOLDOO 130 **TERRORT** 3000 **70012CH** TROUTT COOCEH 1980 <del>/CINOUT</del>/ 0017CH 4120 TRITENCY 002E8H 6160 **YCALCY** OUZUCH 324D O ERRORS DETECTED. O WARNINGS ISSUED. ENTRY POINT 15 18H FLOATING POINT OPERATIONS WERE GENERATED. COMPILATION OF DISHIT COMPLETE. O TOTAL ERRORS DETECTED. O TOTAL WARNINGS ISSUED. END OF FORTRAN-86 COMPILATION. ٠.

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	SUBROUTINE LETREP
~ <del>~~</del>	INCLUSE (+F2+COMMON, FOR)
2=1	INTEGER*4 RESULT MASK (16) NAME
	INTEGER*4 BIT, BIT1, BIT2, BIT3, BIT4, BIT5, BIT6, BIT7, BITS, BIT9
<del></del>	- INTEGER-4 BIT10, DIT11, DIT12, BIT13, BIT14, BIT15, BIT16, BIT17, BIT18
	INTEGER#4 BIT20, BIT21, BIT22, BIT23, BIT24, BIT25, BIT26, BIT27, BIT20
	- INTEGER*4 DITOG, DITO1, DITO2, B. 193, DITO4, DITO5, DITO6, DITO7, DITO8
<del>7=1</del>	INTEGER*4 BIT40, BIT41, BI142, BI F43, BIF44, BIT45, BIT46, BIT47, SIF48
<del></del>	INTEGER#4 DIT19+DIT29+DIT39+DIT49
<del></del>	INTEGER: 4 BEGIN1 - BEGIN2 - BEGINS
-10-1	INTEGER*4 BEONY, DEGNIO, BEONII, BEONIZ, BEONIS, BEONIA, BEONIS, ECONIO
<del></del>	INTEGER*4-WIDTH1, WIDTH2, WIDTH3, WIDTH4, WIDTH5, WIDTH6, WIDTH7, WIDTHS
12-1	
<del>-10-1</del>	<del></del>
14=1	<del>INTEGER#4-JOAR7+JCAR10+JCAR11+JCAR12+JCAR13+JCAR14+JCAR15+JCAR16</del>
15-1	<u>INTEGER#4-B81, B82, B89, B84, B85, B86, B87, B88, B87, B810</u>
16=1	INTEGEP#4 D011+D012+D019+D014+D015+D016+D017+D015+D019+D020
<del>-17=1</del>	INTEGER+4 - DG21 - DG22 - DG23 - DG24 - DG25 - NORMAL - POWER
<del></del>	INTEGER*4 D026vD627vD620v 3627vD630
· <del>-19=1</del>	- INTEGER*4 WIDTH, BEGIN, END, RMASK, I, K
<del>-20-1</del>	LOGICAL*4 MSSFyTGSFyGSSFybkNPSFyFGSCSFyINDPSF
<del>-21=1</del>	LOC-10AL+4 HEGTSF, LSCLSF, LSRPSF, LSSPSF, LPCPSF
<del></del>	LUGICAL*4 LSCPSFyHFBPSFyLEOPSFyLPHLSFyLSHLSF
<del>-29-1</del>	LUGICAL*4 TDIT: LSPPSF: FIRESF
74-1	LUGICAL*4 PISCSF, PISCSF, PISCSF, F4SCSF, PISCSF
5-1	LOGICAL#4 SISCSF.SISCSF.SISCSF.SISCSF
	- EBBTEAL** LVSVSF, LCSVSF, HVSVSF, HCSVSF
-2/-1	LOGICAL*4 ACEPSE, SEWESE, HOFVSE, FROESE, PROSSE
- <del>28-1</del>	LOGICAL*4 RCLSSF, LSTRNS, SLTANS, INTIAL, SFTINF
<del>-29-1</del>	LOGICAL*4 APBOSE ASBOSE BHMHSE BHMLSE BHMRSE BTRNSE
-50=1	LOGICAL*4 PAMHSF, PAMLSF, PFMHSF, PFMLSF, SFMHSF, SFMLSF
	LOGICAL*4 SAMMSF, SAMLSF, ENCTSF, PHOTSF, SHOTSF
<del>-32-1</del>	LOG CALA4 MOOPCC, MLTOSF, RENTKY
<del></del>	LOG: CAL #4 NOFAN, F48PM, F20PM, F120PM, F71ME, NCLTCH
34=1	LOGICAL * 4 AENSE : APRSE : ASSSE : AS
<del>35×1</del>	INTEGER*4 PATVV. PFTVV. SATVV. SFTVV
36=1	INTEGER#4 IAPBON, IASBON, IDHMSP, IDHMSR, IPAMPR, IPAMPR
37-1	INTEGER#4 ISPMPR, ISAMPR, TENCTM, TPHOTM, ISHOTM, IDTANK
	- INTEUERRA TRIBUIR
39-1	INTEGER*4 DIGIN(3), SUSMSG, NSUSMG
40=1	INTEGER 4 LAND, TRNSTN, SEA, PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW
41=1	INTEGER*4 TEST1, TEST2, TEST3, HYBPSS, HYNDPS, ENGNON, ENGMAG
42=1	INTEGER*4 CKPUMP, CKRHMP, CKPLSI, CKRLST
43=1	INTEGER*4 CKPSLT, CKRSL1, CKRSL2
44=1	INTEDER*4 IAENSP, IAPMSP, IASMSP, IAPSSP, XASSSP, IAPWSP, IASWSP
43=1	INTEGER#4 DTXST; PRINCIP
4 <del>4-1</del>	INTEGER* 4 - TDELAY - TIMERY BMOOP - PDMOOP - DIGOUT (8)
47-1	INTEGER*4 GEGFOF PEFUNP BLOPON
<del>40-1</del>	INTEGER*4 OCTD, GROLSE, GUTD, GROPEN, POPWER, DLOGFF, SLOWER
<del></del>	
<del>70=1</del>	INTEGER*4 ERRULY, DTDGS, PDTDGS, PTDGS
<u> </u>	INTEGER## AUX1, AUX2, AUX3, AUX4, AUX5, AUX6, AUX7, AUX8, IDES
<del>52-1</del>	INTEGER#4 ROMS, RPI. 3, RSSS, RPSS, RES
<del>- 53=1</del>	INTEGER* + PTVV+STVV
	REAL#4 AFECAN, ASECAN, DHMSP, DMMSR, DTRNR, FAMTPR

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55=1	REAL*4 FDR, WJCNST, INTCPT(-1:1)
7-56≃1	REAL*4 PEMTER, SEMTER, SAMTER, ENCIEM, PHOTEM, SHOTEM
	REAL*4 DPMSP, DSMSP, ODHMSP, PNTIG, AUX9, AUXIO
3=1	REAL*4 DHWSP, DHWSR, DPWSP, DSWSP
59=1	REAL*4 APPS, ASPS, AENSP, FMDIS, PMDFP
&Ú=1	REAL*4 PHTRQ, DPMP, REPPT, PTREFF, REPST
61=1	REAL*4 APMSP, ASMSP, SMUTS, SMUTP
62=1	REAL*4 SHTRQ, DSMP, STREFF, REPT
63=1	REAL*4 DFFRY, PDTFP, DPPWJ, DSFRT, SDTFP, DPSWJ
64=1	REAL*4 PPDIS, PPDFP, APSSP, ASSSF
65=1	REAL*4 PPTRQ, DPPP, REPPP, PPMEFF, REPSP
66=1	REAL*4 SPDIS, SPDFP, MAXNSP, TREP, DES
67=1	REAL*4 SPTRQ, DSPP, SPMEFF, REPP, ALFMSP, ALSMSP
63=1	REAL*4 ALPUSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TORQUE
67-1	REAL®4 KI, K2, K3, K4, K3, K6, K7, K8, K9, K10
70=1	REAL*4 111, 114, 115, 116, 117, 119
71=1	REAL*4 MI3, MI4, MI5, MI6, MI7, MIS, MI9, M20
72-1	REAL#4 M21, M22, M23, M24, M25, M26, M27, M28
73=1	REAL*4 MZ9, M30, M31, M32, M33, M34
74=1	REAL*4 DHMSPB(4), PAMPR(10), SAMPR(10), PFMPR(10), SFMPR(10)
75=1	INTEGER#4 M2, M3, M10, M11, M12
76=1	INTEGER*4 M35, M36, M37, M36, M39, M40
77=1	INTEGER*4 M41, M42, M43, M44, M45, M46, M47, M48, M47
78=1	COMMON /BITFNC/ RESULT, MASK, NAME
79±1	COMMON VEITHNCY BITTELLY, BITTELLY, BITTELLY, BITTELLY, BITTELLS,
20=1	COMMON ARTIFACA RILIO BILLI ARTIZARIJIS BILLA BILLO BILLO BILLA
31=1	COMMON /BITFNC/ BIT20, BIT21, BIT22, BIT23, BIT24, BIT25, BIT26, BIT27
32=1	COMMON 7811FNC/ 81130-81131-81132-81133-81134-81135-81136-81137
<u> </u>	COMMON /BITFNC/ BIT40, BIT41, BIT42, BIT43, BIT44, BIT45, BIT46, BIT47
- 1=1	COMMON /BITFNC/ BIT19, BIT29, BIT39, BIT49, BIT18, BIT28, BIT38, BIT48  COMMON /BITFNC/ BEGIN1, BEGIN2, BEGIN3, BEGIN4, BEGIN5, BEGIN5, BEGIN7
86=1 	COMMON /BITFNC/ BEGNY, BEGNIO, BEGNII, BEGNIZ, BEGNIZ, BEGNIA, BEGNIZ
<del></del>	COMMON /BITFNC/ WIDTH1, WIDTH2, WIDTH3, WIDTH4, WIDTH5, WIDTH6, WIDTH7
= 38=1	COMMON /BITFNC/ WIDTY, WIDTIO, WIDTII, WIDTIZ, WIDTIZ, WIDTIA, WIDTIZ
- 59=1	COMMON /BITFNC/ BEGINS, BEGNIE, WIDTHS, WIDTIE, UCARDS, UCARIS
<del>- 90=1</del>	COMMON /BITFNC/ JCARD1,JCARD2,JCARD3,JCARD3,JCARD5,JCARD7
<del></del>	COMMON /BITFNC/ JCAR9, JCAR10, JCAR11, JCAR12, JCAR13, JCAR14, JCAR15
72=1	COMMON /BITFNC/ DG1, DG2, DG3, DG4, DG5, DG6, DG7, DG3, DG9, DG10
<del>-93=1</del>	COMMINN /BITFNC/ DG11, DG12, DG13, DG14, DG15, DG16, DG17, DG18, DG19, DG20
- 94±1	COMMENT /BITFNC/ DG21, DG22, DG23, DG24, DG25, NORMAL, PUNER
75=1	COMMON /BITTING/ DG26, DG27, DG28, DG29, DG30
76=1	COMMON /BITFNC/ WIDTH, SEGIN, END, RMASK, I, K
	COMMON /ERROR/MSSF, TSSF, GSSF, EKNPSF, PGSCSF, INDPSF
<del>ラボー1</del>	COMMON /ERROR/ HEOTSF, LBCLSF, LBRPSF, LBSPSF, LPCPSF
<del></del>	COMMON /ERROR/ LSCPSF, HFBPSF, LEGPSF, LFHLSF, LSHLSF
100=1	COMMON /ERROR/ LSPPSFVFIRESF
-101=1	COMMON /ERROR/ PISCSF, PISCSF, PISCSF, PISCSF, PISCSF
102=1	COMMON /ERKOR/ SISCSF, S2SCSF, S3SCSF, S4SCSF, S3SCSF
103=1	COMMON /ERROR/ LVSVSF, LCSVSF, HVSVSF, HCSVSF
-104=1	COMMON /ERROR/ AEEFSF, SEWFSF, HDFVSF, FEDFSF, FCCSSF
-105=1	COMMON /ERROR/ RCLSSF, LSTRNS, SETRNS, INTIAL, SFTING
<del>-10さ=1</del>	COMMUN /ERROR/ APBCSF, ASBCSF, DHMHSF, DHMLSF, DHMRSF, DTRNSF
-107=1	COMMON /ERROR/ PAMMSF, FAMLSF, PFMMSF, PFMLSF, SFMNSF, SFMLSF
7-3-1	COMMON /ERROR/ SAMMASE, SAMMASE, ENCISE, PHOTSE, SHOTSE
( )=1	COMMON /ERROR/ MOOPCC, MLTSSF, RENTRY
	COMMON /ERROR/ NOFAN, F4GFM, F2GPM, F12GFM, F12ME, NCLTCH
111=1	COMMON /ERROR/ AENSF, APSSF, APMSF, ASSSF, ASMSF, AFWSF, ASWSF
112=1	COMMUNITY CINOUTY TAPBON, TASBON, TOHMSP, TOHMSR, TPAMPR, TEFMIR
	A. 39

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113=1 <del>:114=1                                  </del>	COMMON /CINOUT/ ISFMPR, ISAMPR, IENCTM, IPHOTM, ISHOTM, IDTRNR COMMON /CINOUT/ TRNDIR, DIGIN, DIGOUT, SUSMSG, NSUSMS
25=1	COMMON /CINCOT/ TRNDIK, DIBIN, DIGOOT, SOSMOO, NOOSMO - COMMON /CINCOT/ LAND, TRNSTN, SEA, PARK, NTRAL, REVESE, DRIVE, HIGH, LOW
16-1	COMMON /CINOUT/ TEST: TEST2, TEST3, HYBPS, ENGNON, ENGMSG
-117=1	COMMON /CINOUT/ CKPUMP, CKPLST, CKRLST
110=1	- COMMON /CINOUT/ CKPOLT, CKRSL1/CKRSL2
<del>-112=1</del>	- COMMON /CINOUT/ TAENSP, TAPMSP, TASMSP, TAPSSP, TASSSP, TAPMSF, TASMSP
120-1	COMMON /CINOUT/ STROT-PRMOSP-ERRELY-STEGS-PETEGS-PTEGS
121-1	COMMON /GINOUT/ TDELAY, TIMER, BMOOP, POMGOP
122-1	- COMMON /CINCUT/ SECFOF PCFUND BLODON
123-1	- COMMON /CINCUT/ CCTB, CRCLSE, COTB, CREPEN, POFMUP, DLOOFF, SLOWER
124=1	- COMMON /CINGUT/ SUBBUN, DLCVV, BHCVV, MNDFON, MBPON, TRKSTF, SURISE
-125-1	COMMON /CINOUT/ PATVV.PFTVV.SATVV.SFTVV
126-1	- COMMON /CINOUT/ AUX1, AUX2, AUX3, AUX4, AUX5, AUX6, AUX7, AUX8, IDES
<del>-127-1</del>	- COMMON /CINOUT/ RSM3. RPMS. RSBS. RPBS. RES
-120 <b>-1</b>	COMMON /CINGUT/ PTVV-STVV
129-1	COMMON /CALC/ APBOAN, ASBOAN, DHMSP, DHMSR, DTRNR, PAMTER
130-1	- COMMON /CALC/ FDRY NUCNOT
131-1	COMMON /CALC/ PEMTER, SEMTER, SAMTER, ENCTEM, PHOTEM, SHOTEM
132-1	COMMON /CALC/ DPMSP, DSMSP, DDHMSP, PNT10, NUX9, AUX10
- <del>133-</del> 1	- COMMON /CALC/ DHWSP, DHWSR, DPWSP, DSWSP, INTCPT
134-1	COMMON /CALC/ A PS, ASPS, AENSP, PMDIS, PMDFP
195-1	COMMON /CALC/ PMTRQ. DPMP. REPPT. PTREFF, REPST
<del>-136-1</del>	COMMON /CALC/ APMSP ASMSP , SMBIS , SMBFP
137-1	COMMON /CALC/ SMTRQ, BSMP, STREFF, REPT
<del>-130=1</del>	- COMMON /CALC/ OPFRT, PDIFP, DPPWJ, DSFRT, SDIFP, DPSWJ
139-1	- COMMON /CALE/ PPDIS, PPDFP, APSSP, ASSSP
140=1	COMMON /CALC/ PPTRO, DPPP, REPFP, PPMEPF, KEPSP
1-1	COMMON /CALC/ SPDIS, SPDFF, MAXMSP, TREP, DES
+2-1	- COMMON YCALCY SPTROVDSPP, SPMEFF, REPF, ALFMSP, ALSMSP
<del>-143-1</del>	COMMON /CALC/ ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TORQUE
- <del>/44</del> 21	COMMON /CALC/ K1, K2, K3, K4, K5, K6, K7, K3, K7, K10
145=1	- COMMO' - / CALC/ DHMSPD: PAMPR: SAMPR: PPMPR: SAMPR
-146-1	COMMON /MOUT/ MI, M2, M3, M4, M3, M6, M7, M3, M9, M10
147=1	COMMON /MOUT/ M11,M12,M13,M14,M15,M16,M17,M18,M19,M20
<del>-140-1</del>	- COMMON /MOUT/ M21+M22+M29+M24+M25+M25+M27+M28+M29+M30
<del>- 1 ( ) = 1</del>	COMMON /MOUT/ M31, M32, M33, M34, M35, M36, M37, M38, M37, M40
150=i	<del>- COMMON /MOUT/ M41+M42+M43+M44+M45+M48+M47+M43+M49+M50</del>
<del>-151</del>	- MINUS-1.0
152	AFPS-AENSP*1.1
<del>-153</del>	ASPS-AENSF*1.1
<del></del>	CALCULATE PORT MOTOR MOTREP
<del></del>	
154	- IF ( APMSP/APPS).LE49) THEN
133	FMD15=11.36
1.56	ELSL
137	PMD15=6.12*APP5*0.9025/APMSP.
158	ENDIF
	CALCHLATE TORCUE
	ONEOGENIE TOWNSE.
_159	PMDCP=PCMTPR PANTPK
160	IF (DTRST, FO, REVRSE)
	+ PMBFP=PMBFP#MINIS
	- IF((PAMUSE).OR.(PAMUSE).OR.(PEMUSE).OR.(PEMUSE)) PMSEP=2000.0
	ALL VILENDO OPERATORS AND PROBLEM AND DESCRIPTION OF THE OPERATOR AND DESCRIPTION OF THE OPERATOR OPERATO
<u></u>	
162	PMTRQ=PMDIG*PMDFF/75.4

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	C	CALCULATE DESIRED HORSEPOWER
	<del></del>	
		- DPMP=PMTRQ+DPM3F/5250
- Ja-		
165		
		REPPT-BEMP/PTREFF
165-		REFFT-Deliff FIREFF
	C .	
	<del>- c</del>	CALCULATE STARBOARD MOTOR MOTREP
187		IF((ASMSP/ASPS).LE49) THEN
163-		SMDTS=11.36
169-		ELSE
<del>-170</del>		SMD15=6.12*ASPS*0.7025/ASMSP
171		ENDIF
	<del></del>	
<del></del>	<del>-</del>	CALCULATE TORQUE
<u></u> _	<del></del>	CHECOLATE TORNOS
430	C <sub>i</sub>	OMECO CENTRO CAMPOR
172-		SMUFP-SFMTPR-SAMTPR
173		IFIDTKST.EQ.REVRSE)
		+ SMDFF=SMDFF*MINUS
-174 -		- IF((SAMMSF): OR: (SAMESF): OR: (SFMHSF): OR: (SFMESF)) SMOFF=2000:0
- <del>- 175</del>		SMTRQ=SMDIS#SMDFF/75.4
	<del></del>	
	<del></del>	CALCULATE DESIRED HORSEFOWER
	<del></del>	
<del>- 176 -</del>		D5MP=5MTRQ+D5M5P/5250
- <del>177</del>		STREFF=(ABS(DSMF/249))***0.25
- <del></del>		TF(STREFF-LT-0.4) STREFF=0.4
1 -		
1		REPST-DSMP/STREFF
	<del>C</del>	
	<del>-</del>	REQUIRED FOWER FOR TRANSMISSIONS
	<del></del>	
- <del>-180 -</del>		REPT-REPPT+REPST
-	<del></del>	
- 181		RETURN
· <del>102</del> -		ENS
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### STORAGE REQUIREMENTS FOR MODULE LDTREP:

STORAGE REQUIREMENTS FO	OR MODULE LD	TREP:			
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COBE AREA SIZE	<del></del>	7440			<u> </u>
- CONSTANT AREA SIZE	<del>00036H</del>	541)	*		
VARIABLE AREA SIZE		<u> </u>			
- MAXIMUM STACK SIZE	<del>- 00008H</del>	<del></del>			·····
<del>/ERROR/</del>	- 0012CH	300B			
	<del>::00:26H</del>	<del>1780</del>		<del></del>	
/GINQUT/	<del>0019CH</del>	<del>4120</del>			
- /BITFNG/	<del></del>	<del>- 616D</del>			
/CALG/	- 9020CH -	<del>- 524D</del>			
	3020011	U2. 7D			
O ERRORG DETECTED.		•			
O WARNINGS ISSUED.					
ENTRY PUINT IS 30H		**************************************	<del></del>		<del></del>
<del>PLOATING POINT OPERATI</del> (		ERATED.	·		
<del>COMPILATION OF LOTREP (</del>	COMPLETE.				
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<del>O TOTAL ERROR'S DETECTE</del>					
O TOTAL WARNINGS ISSUE!					
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### MERIES-III FORTRAN-86 COMPILER V1.0

1	SUBROUTINE PWMOUT
<del>-</del> 1 +	INCLUDE(: F2: COMMON. FOR)
2=1	INTEGER*4 RESULT, MASK(16), NAME
<del>3=1</del>	INTEGER*4 BIT.BITI.BITZ.BIT3.BIT4.BIT5.BIT6.BIT7.BIT8.BIT9
<del>4=1</del>	INTEGER#4 BITTO, BITTI, BITTI2, BITTI3, BITTI4, BITTI5, BITTI6, BITTI7, BITTI8
<del>5-1</del>	INTEGER#4 BIT20, BIT21, BIT22, BIT23, BIT24, BIT25, BIT26, BIT27, BIT28
5=1 	
7=1	INTEGER*4 B1130, B1131, B1132, B1133, B1134, B1135, B1136, B1137, B1138
/-1 8-1	INTEGER*4 81140,81741,81142,81143,81144,81145,81146,81147,81148
	INTEGER*4 BIT19, B1729, B1739, B1749
9=1	INTEGER*4 BEGINI, BEGINZ, BEGINZ, BEGINA, BEGINS, BEGINS, BEGINZ, BEGINS
0=1	INTEGER*4 BEGN9, BEGN10, BEGN11, DEGN12, BEGN13, BEGN14, BEGN15, BEGN16
1=1	TMTEGER#4 WIDTHI, WIDTHZ, WIDTH3, WIDTH4, WIDTH3, WIDTH6, WIDTH7, WIDTH8
2=1	INTEGER#4 WIDT9, WIDT10, WIDT11, WIDT12, WIDT13, WIDT14, WIDT15, WIDT16
3-1	INTEGER*4 JCARDI, JCARDZ, JCARDS, JCARDS, JCARDS, JCARDS, JCARDS
4=1	INTEGER#4 JCAR9, JCAR10, JCAR11, JCAR12, JCAR13, JCAR14, JCAR15, JCAR16
5=1	INTEGER*4 DG1, DG2, DG3, DG4, DG5, DG6, DG7, DG8, DG9, DG10
<u>&amp;=1</u>	INTEGER*4 DG11-DG12-DG13-DG14-DG15-DG16-DG17-DG18-DG19-DG20
7=1	INTEGER*4 DG21, DG22, DG23, DG24, DG25, NORMAL, POWER
8-1	INTEGER*4 DG26, DG27, DG28, DG27, DG30
7=1	INTEGERAA WIDTH, BEGIN, END, RMASK, I, K
<del>()=1</del>	LOGICAL*4 MSSF, TSSP, OSSF, BKNPSF, POSCSF, INDFSF
1=1	LOGICAL*4 HEOTSF, LBCLSF, LBRFSF, LBSPSF, LPCPSF
2=1	LOGICAL*4 LSCPSF, HFBPSF, LEOPSF, LPHLSF, LSHLSF
5=1	LODICAL*4 TBIT:LSPPSF:FIRESF
4=1	LUGICAL*4 PISCSF, P2SUSF, P3SUSF, P4SUSF, P5SUSF
5=1	LOGICAL*4 SISCSF, S2SCSF, S2SCSF, S4SCSF, S5SCSF
<u>&amp;≈1</u>	LOGICAL*4 LVSVSF, LCSVSF, HVSVSF, HCSVSF
<del>7</del> ≃1	LOGICAL#4 AEDFSF, SEWFSF, HDFVSF, FEBFSF, FGCSSF
.5= <u>1</u>	LOGICAL*4 RCLSSF, LSTRNS, SETRNS, INTIAL, SETINE
·	LOGICAL** APBCSF, ASBCSF, DHMHSF, DHMLSF, DHMRSF, DTRNSF
:::-1 : <del>:::-1</del>	LOGICAL*4 PANHSF, PANLSF, PFMHSF, FFMLSF, SFMLSF
1=1	LOGICAL*4 SAMMOF, SAMLSF, ENCTOF, PHOTOF, SHOTOF
<del>2=1</del>	- LOGICAL** MOOPCC; MLTSSF; RENTRY
:5=1	
4-1	LOGICAL #4 NOPAN, F40PM, F30PM, F120PM, F171ME, NCLTCH
· · · -	LUGICAL*4 AENSF, AFSSF, AFMSF, ASSSF, ASMSF, AFWSF, ASWSF
35-1	INTESER*4 PATOV, PPTVV, SATVV, SPTVV
6=1	INTEGER*4 IAPSCN, IASSCN, IDHMSP, IDHMSR, IPAMPR, IPFMPR
7=1	INTEGER*4 ISPMPR, ISAMPR, IENCTM, IPHOTM, ISHOTM, IDTKNR
) <del>3=1</del>	INTEGER#4 TRNDIR
<del>19=1</del>	INTEGER#4 DIGIN(3), SUSMSG, NSUSMG
<del> C=1</del> -	INTEGER#4 LAND, TRINSTN, SEA, PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW.
1=1	INTEGER*4 TEST: TEST2, TEST3, HYDPSS, HYNDPS, ENGNOW, ENGMAG
2=1	INTEGER#4 CKPUMP, CKRAMP, CKPLST, CKRLST
3=1	INTEGER#4 CKPSLT, CKRSL1, CKRSL2
4=1	integer*4 iaensp, iapmsp, iasmsp, iapssp, iasssp, iapwsp, iaswsp
<del>5=1</del>	INTEGER*4 DTRST, PRMCOF
<del> </del>	-INTEGER*4 FBELAY, TIMER, BMOOP, PBMOOP, DIGOUT(8)
<del> </del>	INTEGER*4-SECFOF, PCFWNP, BLGPON
<del>                                      </del>	INTEGER*4 OCTO, ORCLSE, GOTO, ORCHEN, PCFWBP, DLOOPF, SLOWER
<del>  9=1</del>	INTEGER*4 SUBOWN, DLCVV, DHCVV, MNDPON, MBPON, TRKSTP, GURISE
0-1	-INTEGER*4 ERRULY, DTBG3, PUTEG3, PTUGS
5 <del>1 - 1</del>	INTEGER#4 AUX1, AUX2, AUX3, AUX4, AUX5, AUX6, AUX7, AUX3, IDE3
) 2 = 1	INTEGER*4 RSMS, RPMS, ASSS, APSS, RES
(3=1	INTEGER#4 PTVV, STVV
14=1	REAL #4 APBCAN, ASDCAN, DHMSP, DHMSK, DTRNR, PAMTER

# FORTRAN-86 COMPILER :F2:PWMOUT.FOR

55=1	REAL*4 FDR, WJCNST, INTCPT(-1:1)
<del>-56=1</del>	REAL*4 PFMTPR, SFMTPR, SAMTPR, ENCTEM, PHOTEM, SHOTEM
<del>57-1</del>	REAL*4 BPMSP, BSMSP, BBMMSP, PN716, AUX9, AUX10
<del>-53=1</del>	REAL*4 DHWSP, BHWSP, DPWSP, DSWSP
<del>59=1</del>	REAL*4 APPS, ASPS, AENSP, PMDIS, PMDFP
<del></del>	REAL*4 PMTRQ, BPMP, REPPT, PTREFF; REPST
61-1	REAL*4 APMSP, ASMSP, SMDIS, SMDFP
<del>62=1</del>	REAL*4 SMTRG, DSMP+STREFF, REFT
63=1	REAL*4 DPFRT, PBIFP, DPPWJ, D6FRT, SDIFP, DPSW0
64-1	REAL*4 PRDIS, PRDFP, ARSSP, ASSSP
65 <b>=1</b>	REAL *4 PPTRQ, PPPP, REPPP, PPMEFF, REPSP
	REAL#4 SPDIS, SPDIS, MAXMSP, TREP, DES
<del>67=1</del>	REAL*4 SPTRQ DSPP SPMEFF REPP ALPMSP ALSMSP
- <del>68=1</del>	REAL*4 ALPUSP, ALSUSP, MAXUSP, AUXPON, TRNPON, TORQUE
-49-1	REAL *4 K1, K2, K3, k4, K5, K6, K7, K0, K9, K10
70-1	REAL * 4 M1 · M4 · M5 · M6 · M7 · M8 · M9
71-1	REAL*4 M13, M14, M15, M16, M17, M18, M19, M20
72-1	REAL #4 M21 M22 M23 M24 M25 M26 M27 M20
73-1	REAL*4 M29, M30, M31, M32, M33, M34
74=1	REAL*4 BHMSPB(4), PAMPR(10), SAMPR(10), SFMPR(10)
75-1	INTEGER*4 H2, M3, M10, M11, M12
74=1	INTEGER*4 MS5. MS7. MS5. MS5. M40
<u> </u>	
77-1	INTEGER*4 M41, M42, M43, M44, M45, M45, M47, M48, M49
<del>-76-1</del>	COMMON /DITTING/ RESULTYMASKYNAME
<del>-79-1</del>	COMMON /BITFNC/ BIT, BIT1, BIT2, BIT3, BIT4, BIT5, BIT6, BIT7, BIT6, BIT7
<del></del>	COMMON /BITFNC/ BIT10:BIT11:BIT12:BIT13:BIT14:BIT13:BIT16:BIT17
<del></del>	COMMON /DITFNC/ UIT20, DIT21, DIT22, DIT28, DIT24, DIT25, DIT24, DIT25
- 62-1	COMMON /BITFNC/ BITSO.BITS1.BITS2.BITS3.BITS4.BITS5.BITS6.BITS7
<del>-33=1</del>	COMMON /BITFNC/ BIT40, BIT41, BIT42, BIT48, BIT44, BIT45, BIT46, BIT47
<del></del>	COMMON /BITFNC/ BIT19-BIT29-BIT39-BIT49-BIT18-BIT20-BIT30-BIT48
<del> 36=1</del>	COMMON /BITTNE/ BEGN9 BEGN10 BEGN11 BEGN12 BEGN13 BEGN14 GEGN15
<del></del>	COMMON /EITENC/ WIDTHI-WIDTH2-WIDTHS-WIDTHS-WIDTHS-WIDTHS-WIDTHF
	COMMON /BITFNC/ WIBT? WIBT10 WIBT11 WIBT12 WIBT13 WIBT14 WIBT15
—— <del>07=1</del> ——	
<del></del>	
- <del></del>	COMMON /BITFNC/ JCAR9; JCAR10; JCAR11; JCAR12; JCAR13; JCAR14; JCAR15
<del></del>	<u> </u>
<del></del>	<del>COMMON /BITFNC/ B811、B812、B013、B814、B315、B316、B317、B318、B319、B320</del>
94=1	COMMON /BITFNC/ DG21, DG22, DG23, DG24, DG23, NORMAL, POWER
<del>95=1</del>	COMMON /BITFNC/ DO26: DO27: DO28: DO29: DO30
<del>76=1</del>	COMMON /BITFNC/ WIBTH DEGIN END RMASK, I,K
<del>57=1</del>	CUMMON /ERROR/MSSF, TSSF, OSSF, EKNESF, FOSCSF, INUFSF
<del>50-1</del>	COMMON /ERRORY HEGTSF, LSCCSF, LBRMSF, LBSFSF, LFCFSF
<del></del>	COMMON /ERROR/ LSCPSF, HFEPSF, LEOPSF, LPHLSF, LSHLSF
100=1-	COMMON /ERROR/ LSPFSF, FIRESF
<del>101=1</del>	COMMON /ERROR/ PISCSF, PISCSF, PISCSF, PISCSF, PISCSF
- 102=1	COMMON /ERROR/ 818CSF, 828CSF, 835CSF, 848CSF, 835CSF
<del>-103=1</del>	COMMON /ERROR/ LVSVSF, LCSVSF, HVSVSF, HCSVSF
<del>103-1</del>	COMMON /ERRORY ACOPORT SELPCE TRAPVORT FEDERAL POCSOF
105=1	COMMON /ERROR/ ROLEGF, LISTENG, SETENG, INTIAL, SETING
<del>106-1</del>	GOMMON /ERROR/ APECSF, ASBESF, BHMHSF, BHMLSF, BHMRSF, BTRNSF
	COMMON PERRORY PAMISE, PAMISE, PEMISE, PEMISE, SEMISE, SEMISE
108=1	COMMON /ERROR/ SAMESE, SAMESE, ENCISE, PHOTOF, SHOTEF
<del>-09=1</del>	
	CUMMON /ERROR/ MOOPCE, MLTSSF, RENTRY
	COMMON /ERROR/ NOFAN,F46PM,F86PM,F120PM,F11ME,NCLTCH COMMON /ERROR/ AENSE,APSSE,APMSE,RSSSE,ASMSE,APVSE,ASVSE
-112-1	COMMON /CINOUT/ IAPBON, IASBON, IBHMSP, IBHMSR, IPAMPR, IPFMFR
112-1	COLUMN ACTION S. THE DOM'S THERDON'S TRIBUICAL STRUCKS THERE WE TAKE WAS TAKEN.
	Α ΑΑ

_	113=1	COMMON /CINOUT/ ISFMPR, ISAMPR, IENCTM, IPHOTM, ISHOTM, IDTRNR
	111=1	COMMON /CINOUT/ TRNDIR, DIGIN, DIGUUT, SUSMSG, NSUSMG COMMON /CINOUT/ LAND, TRNSTN, SEA, FARK, NTRAL, REVRSE, DRIVE, HIGH, LOW
	.15=1	COMMON /CINOUT/ LAND, TRNSTN, SEM, PARK, NIKAL, KEVKSE, DKIVE, HIGH, LOW COMMON /CINOUT/ TEST1, TEST2, TEST3, HYBPSS, HYNDPS, ENGNON, ENGNSG
_	113=1 117=1	COMMON /CINOUT/ CKPUMP, CKRAMP, CKPLST, CKRLST
	11/=1 <del>118=1</del>	COMMON /CINOUT/ CKPSUT, CKRSU1, CKRSU1
_	115-1 117-1	COMMON /CINOUT/ 1AENSP, TAFMSP, TASMSP, TAPSSP, TASSSE, TAPWSP, TASWSP
	120=1	COMMON /CINGUT/ DTRST, PRMOOP, ERROLLY, DTDGS, PDTDGS, PTDGS
	121=1	COMMON /CINGUT/ TDELAY, TIMER, DMOOP, PDMOOP
	122=1	COMMON /CINGUT/ SECFOF, PCPWNP, BLGPON
	123=1	- COMMON /CINOUT/ OCTD, ORCLSE, GO TD, GROPEN, FCFWDF, DLGOFF, SLOWER
	124-1	- COMMON /CINCUT/ SUBCLIN, DLCVV, GHCVV, MNSPON, MSPON, TRKSTP, SURISE
	125=1	COMMON /CINOUT/ PATVV, PFTVV, SATVV, SFTVV
	126≈1	COMMON /CINCUT/ AUX1, AUX2, AUX3, AUX4, AUX5, AUX6, AUX7, AUX8, IDES
	127-1	COMMON /CINOUT/ RSMS, RPMS, RSSS, RFSS, RES
	128=1	COMMON /CINOUT/ PTVV.STVV
	129-1	COMMON / CALC/ APBCAN; ASBCAN, DHMSP, DHMSR, DTRNR, PAMTER
	130=1	COMMON /CALC/ FDR.WJCNST
_	<del>131=1                                  </del>	COMMON /COLC/ PEMTER, SEMTER, SAMTER, ENCIEM, PROTEM, SHOTEM
_	132=1	COMMON /CALC/ DPMSP, DSMSP, ODHMSP, PNTIG, AUX9, AUXIO
_	133-1	COMMON /CALC/ DAWSP, DHWSR, DPWSP, DSWSP, INTCPT
_	134=1	COMMON /CALC/ APPS, ASPS, AENSP, PMDIS, PMDFP
_	135=1	COMMON /CALC/ PMTKG,DPMP,REPPT,PTREFF,REPST
	186-1	COMMON /CALC/ APMSP, ASMSP, SMDIS, SMDPP
	137=1	COMMON /CALC/ SMTRQ, DSMP, STREFF, REPT
	138=1	COMMON /CALC/ OPFRT, PDIFP, DPPWJ, DSFRT, SDIFP, DPSWJ
	159=1	COMMON / CALC, FPDIS, FPDFF, APSSF, ASSSP
	140=1	CONMON /CALC/ PPTRQ, DPPP, REPPP, PPMEFF, REPSP
	:41=1	COM JON /CALC/ SPD1S,SPDFP, MAXMSP, TREP, DES
	142=1	COMMON /CALC/ SPTRQ, DSPP, SPMEFF, REPP, ALPMSP, ALSMSP
	143=1	COMMON /CALC/ ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TORQUE
	144=1	COMMON /CALC/ K1,K2,K3,K4,K5,K6,K7,K8,K9,K10
_	145-1	COMMON /CALC/ DHMSPD, PAMPR, SAMPR, PFMPR, SFMFR
	146=1	COMMON /MOUT/ MITHER METMET METMETMET METMET METMETMET METMET METMETMETMET METMET METM
	147=1	COMMON /MOUT/ Mil.Mi2.Mi3.Mi4.Mi5.Mi6.Mi7.Mi8.Mi7.M20
	148=1	COMMON /MOUT/ M21, M22, M23, M24, M23, M26, M27, M28, M29, M30
-	149=1	COMMON 7MOUT/ M31, M32, M33, M34, M35, M36, M37, M38, M39, M40
_	150=1	COMMON /MOUT/ M41, M42, M43, M44, M45, M46, M47, M48, M49, M50
_		
_		CUTPUT ENGINE COVENOR CONTROL VOLTAGE
_	C	TE (DEC. 1.E. TAG. A), DEC. TAG.
_	151	IF(DES .LE. 700.0) DES-701.1
	132	1F((M32-DES).GT.M31) DE3=M32-M31
_	153	IF((DTRST.EG.PARK).OR.(DTRST.EG.NTRAL)) DES=DHMSP+701.1
_	154	IF(DHMSP.LT.1.0) DES=701.1
_	155	IDES=INT(1.75*(DES-700.0))
_	136	M32*DE3
	<del>_</del>	
	C A	OUTPUT TRANSMISSION VALVE VOLTAGES
_	457	450-417450-4-4
	<del>157</del>	APS-AUNSP#1.1
_	450	TO ADMINISTRATION OF THE PROPERTY OF THE PROPE
	158	IF (PRMOOP, EQ. SEA) DTRST-DRIVE
	<del>159</del>	- IF((DTRST.EQ.DRIVE).OR.(DTRST.EQ.REVRSE)) THEN
	<del>\$0</del>	IF(FRMOOP.EQ.LAND) THEN
•	161	PTVV=INT(((ALPMSP/K1)*APS***K2*((18000~FMDFP)/18000)***K3
_		+ )**K4+K3)*2730
	152	STVV=INT(((ALSMSP/K1)*AFS**K2*((18000-SMDFP)/18000)***K3
		A.45

	+ )**K4+K3)*2730
163	IP(ALPHSF.LT.1.0) PTVV=0
<del>. 4.4</del>	IF(ALSMSP.LT.1.0) STVV=0
~ <del>165</del>	EIGE OTHER TAIR AND
166	PTVV-INT(((ALPVISP/K6)*APS***K2*((18030-7D1FF)/18000)***K5
167	+
107	**************************************
168	IF (ALPWSP.LT.1.0) PTVV=0
169	IF (ALSWSP.LT.1.0) STVV-0
170	ENDIF ENDIF
<del>171</del>	IF (DTRST. EQ. BRIVE) THEN
<del>-172</del>	PETWICTING .
<del>175</del>	SFTVV=STVV
-174 174	SATVVOC
175	• • • • • • • • • • • • • • • • • • • •
<del>-176</del>	PATVV 30
177	ELSE PATYU-PTW
170	
	SATVU-STVV
<del>-179</del>	
101	ENDIE EN A DA AND ADDRESS DE LE CONTRACTOR DE LA CONTRACT
<del>- 182</del>	IF ((BTRNR.EQ1.0). AND. (FRMOOP.NE.SEA)) THEN
103	IF ( ( DTRST. EG. DRIVE) . AND. (TRNDIR. EG. 1) ) . OR.
4 .35 .00	+ ((DTRST.EQ.REVRSE).AND.(TRNDIR.EQ1))) THEN
184	PATVV*PTVV
<del>185</del>	SFTVV=STVV
134	PPTVV=0
87	SATVV=0
100	
189	PFT\ V=PTVV
190	SATVV-STVV
<del>-191</del>	PATVV=0
192	SPTW=0
193	
194	ENDIF
195	
<del>-196</del>	PFTVVuO
<del>- 197</del>	<del>SFTV40</del>
198	SATVV=0
<del>199</del>	
<del>200</del>	CNOIF
201	RETURN
202	<u> </u>
	•
<del></del>	
<del></del>	
	- A.46
	- M. PU

STORAGE REQUIREMENTS FOR MODULE PUMOUT:

	STURAGE REQUIREMENTS FOR	MUDULE PI	WMOUT:			
ľ						
L	CODE AREA SIZE	0076SH	18760			
	CONSTANT AREA SIZE	OOOTEH	300	•		
	VARIABLE AREA SIZE	00008H	SD			
	MAXIMUM STACK SIZE	OOOICH	280			
	/ERRÜR/	0012CH	3000			
	/MOUT/	COOCEH	1980		<del></del>	
	/CINOUT/	0019CH	4120	<u> </u>	······································	
	/BITFNC/	00268H	619D			
	/CALC/	OOZOCH -	5240	<del></del>		
				<u> </u>	· · · · · · · · · · · · · · · · · · ·	
	O ERRORS DETECTED.		<del></del>			
	O WARNINGS ISSUED:					
	ENTRY POINT IS 20H					
	<u> FLOATING POINT OPERATION</u>	IS WERE GEI	VERATED.		· · · · · · · · · · · · · · · · · · ·	
	COMPILATION OF PWMOUT CO	MPLETE.		<del></del>		
		~ <del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>	<del></del>			
		<del></del>	<del></del>		<del></del>	
	O TOTAL ERRORS DETECTED:	<del>,</del>		<del></del>		
	TOTAL WARNINGS ISSUED.		<u> </u>		<u> </u>	:
	END OF FORTRAN-SS COMPIL	ATION.				
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1			<del></del>	<del></del>	······································	
				<del></del>		
			- A.47			
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	INVOKED BY: - F1: FORTS6.86 - F2: ANLOIN. FOR
_1	
-1-1	INCLUBE (*F2*COMMON.FOR)
<del>-2-1</del>	INTESER # 4 RESULT, MASK (16) y NAME
-9-1	INTEGERAL BIT, BIT; BIT; BITS, BITS, BITS, BITS, BITS, BITS, BITS
4=1	INTEGER#4 DITIO-DITIDITI2-DITIS-DITI4-BIT13-DIT16-BIT17-DIT18-
_S-i	
	INTEGER: 4 DITSO-BITSI-DITS2-DITSS-DITS4-DITSS-DITSA-DITSS-
7-1	
	INTEGER#4 BIT19, BIT29, BIT29, BIT49
10-1	INTEGER#4 BEGIN1, BEGIN2, BEGIN3, BEGIN4, BEGIN5, BEGIN5, BEGIN5, SEGIN5, SEGI
10-1	INTEGER*4 DEON9 DEON10 DEON11 DEON12 DEON13, DEON14, LEON15, DEON15
11-1	- INTEGER 44 WIBTHI WIBTHZ WIDTHO WIBTH4 WIDTH5 WIDTH6 VWIDTH7 WIDTH
12-1	INTEGER #4 WIST9, WIST16, WIST11, WIST12, WIST13, WIST13, WIST15, WIST15
13-1	<del></del>
<del>14-1</del>	——INTEGER#4 JCAR9+JCAR10+JCAR11+JCAR19+JCAR19+JCAR14+JCAR15+JCAR16
15-1	
16-1	<del></del>
17=1	INTEGER: 4 BO21 - CO22 - BO23 - BO24 - BO25 - NORMAL - POWER
10-1	
- <del>                                      </del>	
	LUGICAL #4 MSST TOST CSST DKNPST POSICST INSPST
- <u></u>	LOGICAL *4 HED 19F1 DOLSEN BOPSEN BOPSEN LPCPSE
<del></del>	LOSICAL #4 LOCFOF VINITOR SEVEROPS FVL PHUSE VLSHLOS
23-1	LOGICAL +4 TO IT - LOPPOR - FIRESF
	- LOGICAL V4 P1803F, P2803F, P3803F, P4803F, P3803F
25-1	L001CAL+4 S18C5F, 528C3F, 535C5F, 543C5F, 535C5F
	L0616AL*4 LV9V9F1C09V3F1HV9V3F1HC3V3F
2/=1	COUICAL ** AEDPOP SEWPOP HOPVOP PEDF SF FOCSOF
28-1	LOUICAL 4 ROLSSP, LSTRNS, SLITANS, INTIAL, SPTIN
2:-1	LOGICAL *4 APSCSF ASSCSF, SHMHSF, SHIPLSF, SHMRSF, STRNSF
30-1	
31-1	LOGICAL#4 JAMHSF+SAMLSF+ENCTSF+FHOTSF+SHOTSF
-02-1	LOGIEAL#4 MOGPOCYMLTOSFYRENTRY
-39=1	LOGICAL+4 NOPANYF40PMYF30PMYP120PMYPTIMEVNCLTCH
34-1	Logical 4 Alnsy, apssf, apmsf, asssf, asmsf, afwsf, afwsf
<del>- 35-1</del>	INTEGER#4 PATVV, PFTVV, SATVV, SFTVV
-55-1	INTEGER#4 TAPBON, TASEON, TDHMSH, TUHMSR, TPAMPR, TPFMPR
37-1	INTEDER-4 ISPMPR, ISAMPR, IENCTM, IPHOTM, ISHOTM, IDTRNR
-33-1	INTEGER+4 TRNDIR
-39-1	INTEGERA DIGING, SUSMSO, NEUSMG
40=1	INTEGERAT DIGINGS, SOSHSO, NECOHO INTEGERATE LAND, TRASTN, SEA, PARK, NTRAL, KEVRSE, DRIVE, HIGH, LOW
41-1	INTEGER#4 TEST1, TEST2, TEST3, HYDPSS, MYNDPS, ENGNOW ENGMSG
42=1	INTEGER*4 CKPUMP, CKRAMP, CKPLST, CKRLST
43=1	INTEGÉR*4 CKPSL1, CKRSL1, CKKSL2
44=1	Integer** Taensp, Tapmsp, Tasmsp, Tapssp, Tasssp, Tapwsp, Taswsp
45-1	INTEGERAL DIRECTOR PROCESS OF THE PR
-45 <del>-1</del>	- INTEGER#4 TOELAY, TIMER, DMOOP, PDMOOP, DISCUT(0)
47-1-	- INTEGER#4 SECFOF POFWNP DLOPON
<del>-40-1</del>	
47-1	INTEGER#4 GUESHN, DECVV, BROVV, MNBPGN, MBPGN, TRKSTP, SURTSE
<u> </u>	
<del>151-1</del>	TNTEGER#4 AUX1+AUX2+AUX3+AUX4+AUX5+AUX6+AUX7+AUX8+IDE
-52-1	- INTEGER#4 ROME + RPMS + RPSS + RPSS + RES
<del>53-1</del>	- INTEGER#4 PTVVvSTVV
<del>-54-1</del>	REAL 44 APBOAN, ASBOAN, DHMSP, DHMSR, DTRNK, PAMTER
₩ <del>- 1</del>	CHARLES A.E. B. MARIES LEMMARISES WITH M. S. W. H. MALLES W. C. M.

55≈1	REAL*4 FDR, WUCNST, INTCPT(-1:1)
/ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	REAL*4 FEMTPR, SEMTPR, ENCYEM, PHOTEM, SHOTEM
N7=1	REAL#4 DFMSP; DSMSP; DDHMSP; PNT10; AUX9; AUX10
532 1	REAL*4 DHWSP, DHWSR, DPWSP, DSWSP
- 57=1	REAL*4 APPS, ASPS, AENSP, PMDIS, PMDFP
<u>60=1</u>	REAL*4 PMTRQ.DPMF.REPPT.PTREFF.REPST
61=1	REAL*4 APMSP, ASMSP, SMDIS, SMDFP
62=1	REAL*4 SMIRW, DSMP, STREFF, REPT
63=1	REAL*4 DPFRT, PDIFP, DFPWJ, DSFRT, SDIFP, DPSWJ
64≈1	REAL*9 PPDIS, PPDFP, APSSP, ASSSP
65 <del>=1</del>	REAL*4 PFTRQ, DPPF, REPPP, FPMEFF, REPSF
<del></del>	REAL#4 SPDIS, SPDFP, MAXMSP, TREP, DES
<u>57≖1</u>	REAL*4 SPTRQ, DSPF, SPMEFF, REPP, ALPMSP, ALSMSP
<u>63=1</u>	REAL*4 ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TORQUE
<del>- €9=1</del>	REAL#4 K1, K2, K3, K4, K5, K6, K7, K8, K9, K10
70×1	REALWA MITMATMSTMSTMSTMS
71=1	REAL*4 MI3, MI4, MI5, MI6, MI7, MI8, MI9, M20
72-1	REAL*4 M21-M22-M23-M24-M23-M26-M27-M28
73=1	REAL*4 M29.M30.M31.M32.M33.M34
74=1	REAL*4 DHMSP8(4), PAMPR(IO), SAMPR(IO), PFMPR(IO), SFMPR(IO)
75=1	INTEGER#4 M2,M3,M10,M11,M12
76=I	INTEGER#4 M35, M36, M37, M38, M39, M40
77:=1	INTEGER*4 M41, M42, M43, M44, M45, M46, M47, M48, M49
73=1	COMMON /BITTNC/ RESULT, MASK, NAME
15=I	CCMMON /BITFNC/ BIT, BIT1, BIT2, BIT3, BIT4, BIT5, BIT6, BIT7, BITS, BIT9
<u>30≠1</u>	COMMON /BITFNC/ BITTO: BITTI.BITT2, BITT3, BITT4, BITT5, BITT6, BITT7
<del>51=1</del>	COMMON / DITTNC/ EIT20. BIT21. EIT22. BIT23. DIT24. BIT25. DIT26. BIT27
32=1	COMMON /BITFNC/ BIT30.BIT31.BIT32.BIT33.BIT34.BIT35.BIT36.DIT37
<u> </u>	COMMON /DITFNC/ BIT40, BIT41, BIT42, BIT43, BIT44, BIT45, BIT45, BIT45
<del>`~34=1.</del>	COMMON /BITTWC/ BIT19, BIT29, BIT39, BIT49, BIT18, BIT28, BIT38, BIT48
35=1	COMMON /BITFNC/ DEGINI, BEGINZ, BEGINS, BEGINS, BEGINS, DEGINS, DEGINS,
<u> </u>	COMMON /BITFNC/ BEGNIO, BEGNIO, BEGNII, BEGNII, BEGNII, BEGNII, BEGNII
	COMMON /BITTNC/ WIDTH1; WIDTH2, WIDTHS, WIDTH4, WIDTH5, WIDTH5, WIDTH7
<u>- 33≈1</u>	COMMON /BITY C/ WIDTY, WIDTIO, WIDTI1, WIDTI2, WIDTI3, WIDTI4, WIDTI3
59≈1	COMMON JETH JJ EEGING, SEGNIS, WIDTHS, WIDTIS, JUARDS, JUARIS
70-1	COMMON /BITTNC/ JCARD1, JCARD2, JCARD3, JCARD4, JCARD5, JCARD5, JCARD7
71=1	COMMON /BITFNC/ JCARY, JCARIO, JCARII, JCARIZ, JCARIS, JCARI4, JCARIS
72=1	COMMON 781TFNC7 DG1, DG2, DG3, DG4, DG5, DG6, DG7, DG9, DG9, DG10
<del></del>	COMMON /BITFNC/ DG11.DG12.DG13.DG14.DG15.DG16.DG17.DG18.DG19.DG20
74=1	COMMON 781TFNC7 DG21, DG22, DG23, DG24, DG25, NURMAL, PUWER
<del>7</del> 5-1	COMMON 731 THEY DG26, DG27, DG23, DG29, DG30
76=1	COMMON /BITFNC/ WIDTH, BEGIN, END, RMASK, I, K
77=1	COMMON /ERROR/MSSF, TSSF, GSSF, EKNESF, PGSCSF, INDESF
ÿ <u>:</u> =1	COMMON /ERROR/ MEOTSF, LBCLSF, LBRPSF, LBSPSF, LPCPSF
<del></del>	COMMON /ERROR/ LSCPSP, MFDPSP, LEOPSP, LFMLSF, LSMLSF
100≖1	COMMON /ERROR/ ESPPSF*FIRESF
101=1	COMMON /ERRORY FISCSF, PRSCSF, P3SCSF, F4SCSF, F5SCSF
105=1	COMMON /ERROR/ 31SCSF, S2SCSF, S3SCSF, S4SCSF, S5SCSF
103=1	COMMON TERRORT LVSVSF, LCSVSF, HVSVSF, HCSVSF
104=1	COMMON /ERROR/ ACESS, SEWEST, HOPVSF, FEBRSF, FOCUSF
-105-1	COMMON /ERROR/ APOLSE, ASSOSE, DHMHSE, DHMHSE, DHMHSE, DTRNSE
106=1	
1:17=1	COMMON /ERROR/ PAMPSF,FRMLSF,FFMHSF,FFMLSF,SFMHSF,SFMLSF
∀8=1	COMMON /ERROR/ SAMHSF, SAMLSF, ENCTSF, PHOTSF, SHOTSF
17=1	COMMON /ERROR/ MOOPCC, MLTSSF, RENTRY
110=1	COMMON /ENRORY NOMAN, MACHINE PROPERTY OF THE ARMS ASSESSED AS USE OF THE COMMON OF TH
<del></del>	COMMON YERRORY RENSELARSSE, AFMSELASSSELASMSELARWSELASWSE
	COMMON /CINOLI/ IAPBON, IASBON, IDHMSP, IDHMSR, IPAMPR, IPFMPR

. '	13=1	COMMON /CINOUT/ ISFMPR, ISAMPR, IENCTM, IPHOTM, ISHOTM, IDTRNR
,	14=1	COMMON /CINOUT/ TRNDIK, DIGIN, DIGOUT, SUSMSG, NSUSMG
	*15=1	COMMON /CINOST/ LAND, TRNSTN, SCA, PARK, NTRAL, REVESE, DRIVE, HIGH, LOW
	110=1	COMMUN /CINCUT/ TEST1, TEST2, TEST3, HYDF3S, HYDDP3, ENGNON, ENGMSG
•	17=1 -10=1	COMMON /CINOUT/ CKFUMP, CKRAMM, CKPLST, CKRLST COMMON /CINOUT/ CKFSLT, CKRSL1, CKRSL2
	1.1.3=1	COMMON /CINDUT/ IMENSE, IMEMSE, IMEMSE, IMESSE, IMESSE, IMENSE, IMENSE
		COMMON /CINCUT/ DIRST, PRIMOR, CRRSLY, STEES, PTESS, PTESS
•	2121	COMMON /CINOUT/ TOTLAY, TIMEN, DMOCP, PEMBOR
	22-1	SCHMON /GINGUT/ SECFOF, PGFUNP, BLGPGN
	28-1	- GOMMON / CINOUT/ OCTO, CRELSE, SOTD, GROPEN, POFWER, BLOOFF, SLOWER
	24-1	COMMON /CINGUT/ CURBUN DECVY DIEVY MADEN MADEN TRESTE SURISE
	25-1	COMMON /CINOUT/ PATVV, PFTVV, SATVV, SFTVV
•	26-1	COMMON /CINCUT/ AUX1, AUX2, AUX3, AUX5, AUX5, AUX7, AUX3, IDES
Ī	27-1	GUMMON /CINCUT/ ROMS/RPMS/RSSS/RPSS/RES
Ī	26-1	COMMON /CINOUT/ FTVV: STVV
ſ	22-1	COMMON /CALCY APECAN, ASDCAN, DHMSP, WHMSR, WTRNR, FAMTER
	130-1	COMMON /CALCY FOR WUCNST
	81=1	COMMON /CALCY PENTER, SEMITER, SAMTER, ENCIEM, PHOTEM, SHOTEM
	132=1	COMMON /CALC/ DPMSP, DSMSP, OUMMSP, PNT10, AUX9, AUX10
	3101   <del> 3 301</del>	COMMON /CALC/ BHWSP BHWSP BRWSP INTERT
	34-1	COMMON / CALCY APPS, ASPS, AENSP, PMDTS, PMDTP
Ī	135-1	COMMON /CALC/ PMTRQ.DPMP.REPPT.PTREFF.REPST
1	<del>. 36=1</del>	COMMON / CALCY APMOP ASMSP & SMBIS & SMBIP
	1 <del>97-1</del>	COMMON /CALC/ SMTRQ, DSMP, STREPP, REPT
	1 <del>50=1</del>	- COMMON /CALC/ BPFRTVPDIFF. BPPULL BSFRT. SBIFF. BFSWd
٦	100-1 1 <del>09-1</del>	COMMON /CALC/ PPUIS PPUIP APSSP ASSSP
•	<del>:40=1</del>	COMMON /CALC/ PPTRO, OFFP, REPP, PPMEFF, REPSF
	141=1	CONTION / CALC/ SPOIS, SPOIP, MAXMSP, TREP, DES
_	·τ∡  -4-2 <del></del>	- COMMON /CALC/ OFTRO, DOPP, OPMERF, REPP, ALPMOP, ALEMOF
	143-1	- COMMON / CALCY ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TORQUE
	լարությ <del>լարավատ 1</del>	COMMON /CALC/ KITK2, K3, K4, K5, K8, K7, K8, K7, K10
ľ	<del>  45=1</del>	- COMMON / CALC/ DHMSPD, PAMPR, SAMPR, FFMPR, SFMFR
	146=1	COMMON /MOUT/ M1, M2, M3, M4, M3, M8, M7, M8, M7, M10
	1 <del>47=1</del>	- COMMON /MOUT/ M11,M12,M13,M14,M15,M16,M17,M18,M17,M20
	!	- COMMON /MOUT/ M21+M22+M23+M24+M25+M24+M27+M23+M29+M30
	149-1	
	150=1	- COMMON /MOUT/ M41:/M42:M43:M44:M45:M46:M47:M43:M47:M50
_		- BIMENGION BHMSPE(10), PAMPR(10), SAMPR(10), PEMPR(10), SEMPR(10)
_	<del>_</del>	PASS THE 12 LOD'S TO READ OUTPUTS
	Ē	
	1:51	<del>- R3H3+(1A3H3P)</del>
	152	RPMS=(IAPMSP)
	159	- R938-(IASSSP)
	154	RP33=(IAP33P)
	135	TRES=(IMENSP)
		INSTALLATION /
_		CONVERT BUCKET ANGLES
	<del></del> _	WHITEHT POWER INCOME.
_	156	
	157	- IC ( (APBCAN, GE. 07), AND. (APBCAN, LE, 93)) APBCAN=90
	158	- IF ( (APBOAN, GE 9), AND. (APBOAN, LE. 9)) APBOAN-0
	· <del>59</del>	IF ( (APBGAN, LE3). OR. (APBGAN, 6E. 29)) THEN
	54)	AFBCAN 70.8
_	161	AFBCGF - TRUE.
	142	
		A.50

163	ASBCAN=0.0255*FLOAT(IASBCN)-7.2
54	If ((ASSCAN. GC. 87). AND. (ASSCAN. LE. 93)) ASSCAN-90
<i>₽</i> 5	IF (ASDCAN. SE3). AND. (ASDCAN.LE. 3)) ASDCAN:-O
45	IF ( (ASUCAN.LE3).OR. (ASUCAN.GE. 93)) THEN
4.7	A3BCAN=90.0
168	ASBCSF=.TRUE.
169	ENDIR
<del> </del>	
<del></del>	CONVERT DESIRED HIGH MOTOR SPEED AND DESIRED HIGH MOTOR SPEED RATE
<del></del>	
70	M10=M10+1
71	M11=M11+1
72	DHM5P=0.0
173	DHMSPB(MII)=1.077*FLOAT(IDHMSP)-705.6
74	90 10 J=1,M12
75	DHMSP=DHMSP=DHMSPB(J)
76 10	CONTINUE
77	- DHMSP=DHMSP/M13
78	If ( DHMSF. 07. 3000). AND. (DHMSF.LE. 3600)) DHMSF. 2000
79	In (Chrise, 6), 3600), AND. (Chrise, 22, 3600), Chrise, 3600
<del>(20)</del>	DHMSP=0
<del>(81</del>	DHIMSF=. TRUE.
182	ENDIF
183	IF((DHMSP.LT.O).AND.(DHMSP.GT570)) DHMSP=0
184	TP (BHMSP.LE: -370) THEN
155	DHMSF=0
186	DHMLSF=.TRUE.
***	ENDIF
113	DHUSP#DHITSP
A 1334	- IF(H11.EQ.H12) H11=0
<del>170</del>	BHM3R=.0003391*FL0A1(1DHM3R)=0.2332
171	IF((BHMSR.GT.1),AND.(BHMSR.LE.1.2)) BHMSR-1
192	IF((BHMSR.GE0.2).AND.(BHMSR.LT.O)) DHMSR-O
193	IF ( DHMSR. GT. 1.2). GR. (DHMSR. LT0.2)) THEN
<del>194</del>	BHM3R=0
175	DMMRSF=. TRUE.
196	ENDIF
1 97-	BHWSR-BHMSR
198	IF((DHMSR.GT.O.7).AND.(LERPSF)) EKNPSF=.TRUE.
1 <del>77</del>	IF((DHMSR.LT.O.9).AND.(LBRPSF)) INBPSF=.TRUE.
1 / /	II ( QUIDON: L ), V. 7/. MND. ( LDNF OF / ) INDEOFE. INDE.
	DESTRED TURN RATTO
7-24 — <del>U</del>	TEATISTIANS AT ARAOL EDIES.
<del>200. –                                     </del>	IF (IDTRNR.LT.1540) THEN
<del>201</del>	TRINDIREL
202	- ELSE
<del>203</del>	TRNDIR-1
204	CNDIF
<del></del>	
205	- BTRNR-TRNBIR: .00097*FLOAT(IBTRNR)+INTCPT(TRNBIR)
<del>206</del>	IF (BTRNR. SE. 1.0) DTRNR-1.0
<del>207</del>	- IF (10 TRNR.LE. 0.05). AND. (DTRNR.GT0.113)) DTRNR-0.0
- 195	IF (BTKWR.LEU.33) THEN
<del></del>	1)TRNR=1.0
<u> </u>	DTRNSF=.TRUE.
211	ENDIF
·	IF ( TRNR.LE. = 0.113). AND. (DTRNR.GT. = 0.33)) DTRNR==1.0
	A.51

-		<u>.</u>	A A CONTRACTOR OF THE PARTY OF
		<del>- 5</del>	CONVERT MOTOR PRESSURES
	,		
-	-213-		PAMTPR-0.0
_	214		######################################
_	<del>-215 -</del>		B6 20 d=1vM35
	216		PAMTPR-PAMTPR+PAMPR(J)
	217	20	CONTINUE
_	218		PANTER-PANTER/M34
_	219		- IF (PAMTER.GT. 12000) PAMHSE-, TRUE.
	<del>-220</del> -		IF (PAMTPR.LE50) PAMLSF TRUE.
		<del>-c</del>	
	-551		PFMTPR=0.0
	-222-		PFMPR(M10)=3.4686*FL9AT(IPFMPR)-2500.36
	223	····	B0 30 J=1,M35
_	-224		FFMTPR=FFMTPR+PFMFR(d)
	<del>-225</del> -	<del>30</del>	CONTINUE
	226		PEMTER-PEMTER/434
	227		IF (PFMTPR.GT.12000) PFMH3F=.TRUE.
	<del>- 220</del> -	· · · · · · · · · · · · · · · · · · ·	IF(PFMTPR.LE. 50) PFMLSP-TRUE.
		<del>-e</del>	
_			- SFHTFR-0.0
	<del>-230</del> -		3FMPR(M10)=3.46864FLOAT(ISPMPR)-2300.86
	<del>-291</del> -		80 40 d=1:M95
`	<del></del>		SEMTER-SEMER(U)
	<del></del>		CONTINUE CONTINUE
	234 	70	SENTER=SENTER/MS4
	<del>-233</del>		
	<del>236</del>		IF(SFMTPR.OT.12000) SFMHSF TRUE.
	200		IF (SFMTPR.LE50) SFMLSF=.TRUE.
	000		
	<del>- 237 -</del>		SAMTPR-0.0
	<del>- 238</del>		SAMPR(M10)=3.46364FLOAT(1SAMPR)=2360.86
	299		80 50 J=1,M35
	240		SAMTPR-SAMTPR+SAMPR(J)
	<del>- 241 -</del>	30	CONTINUE
	<del>- 242 -</del>		SAMTPR-SAMTPR/M34
	243		TRISAMIPR. GT. 12000) SAMMSF=. TRUE.
	244		IP (SANTIPR.LE30) SANLSF=.TRUE.
	-245		TF(M10.E0.M35) M10=0
		-C	
_	····	-0-	CONVERT ENGINE AND HYDRAULIC TEMPERATURES
		<del></del>	
_	246		- ENCTEM 0624#PLOAT(IENCTM)-12.79
_	247		IF ( (ENCTEM.LT10).OR. (ENCTEM.OT. 210)) THEN
	248		ENCTE: 1×240
	249		ENCTS*=.TRUE.
-	250		ENDIF
_		-c	
	251		PHOTEM=.0624*FLOAT(IPHOTM)-12.99
	<del>-252</del> -		IF ( (THOTEM: LT: 10): OR: (PHOTEM: OT: 100) } THEN
	<del>- 25</del> 3		
_	-254-		PHOTSE TRUE.
	-255-		ENDIF
	<del></del>	-6	
	<del>-256-</del> -	-	SHOTEM 0624#FLGAT(ISHOTM)-12.99
	257		1F((SHUTEM:LT:-10):OR:(SHUTEM:GT:180)) THEN
	250		SHOTEM-240
	<del>- 25&gt; -</del>		- SHOTEF TRUE.
	~~·~		
			A.52

# FORTRAN-86 COMPILER FF2: ANLGIN. FOR

	260	ENDIF	
7	C 261		
L.	252 252	RETURN END	
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<u>.</u>			
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			A . 53

### STORAGE REQUIREMENTS FOR MODULE ANLGIN:

			 -
CONSTANT AREA SI		1.60	
VARIABLE AREA S		<del>- 4</del> D	 
<del>C XSATE MUMIKAN</del>	<del>[ZE 0001EH                                </del>	<del>SOD</del>	 
/ERROR/		<del>- 3005</del>	 
/MGUT/			
- /SINGUT/	00196H	<del>4120</del>	 •
/UITFNC/	<del>00</del> 268H	6160	 <del></del>
		<del>524b</del>	 
			 <del></del>
· ERRORS DETECTED.		·	 
O WARNINGS ISSUED.			 
ENTRY POINT IS 94H-			
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<del>- TEOATING POINT OPERA</del>	HIGNS WERE GEN	ERATED.	<del></del>
-COMPILATION OF ANLO	IN COMPLETE		 
<u> </u>			 
A YOUAL CORRECT RETER	T(T)		
O TOTAL CROOKS DETEC	or I feel or	,	· .
O TOTAL WARNINGS ISC	<del>30</del>		 
END OF FORTRAN-66 CO	MPILATION.		 
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		A 54	

### SERIES-III FORTRAN-85 COMPILER V1.0

1	SUBROUTINE DEMOS
<del>-1 -5 -</del>	INCLUDE (:F2:COMMON.FOR)
	INTEGER*4 RESULT, MASK (16), NAME
2-1 3-1	INTEGER*4 BIT, BIT, BIT2, 31 (3, BIT4, BIT5, BIT6, DIT7, BIT8, BIT9
<del>4=1</del>	INTEGER*4 B1710, B1711, B1712, B1713, B1714, B1715, B1716, B1717, B1718
4-1 <del>5=1</del> -	INTEGER*4 DIT20, DIT21, DIT22, DIT23, DIT24, DIT25, DIT26, DIT27, BIT28
<del>2=1</del> 7=1	INTEGER#4 B1130, B1731, B1732, B1733, D1734, B1735, B1736, B1737, B1738
· -	INTEGER#4 D1740, D1741, D1742, D1743, D1744, B1745, D1746, B1747, B1748
8=1	INTEGER*4 BIT19; BIT29; BIT39; BIT49
9=1	INTEGER*4 DEGINI, BEGINZ, BEGI
0=1	INTEGER*4 BEGNY, BEGNIO, BEGNII, BEGNIZ, BEGNIZ, BEGNI4, BEGNIS, DEGNIG
1=1	INTEGER ** WIDTHI, WIDTH2, WIDTH3, WIDTH4, WIDTH5, WIDTH6, WIDTH7, WIDTH
2=1	INTEGER#4 WIDTY, WIDTIO, WIDTII, WIDTIZ, WIDTI
3=1	INTEGER*4 JCARDI, JCARD2, JCARD3, JCARD4, JCARD5, JCARD5, JCARD7, JCARD
4=1	INTEGER*4 JCARY, JCARIO, JCARII, JCARI2, JCARI3, JCARIA, JCARIS, JCARIS
2=1	INTEGER*4 D01,062,003,064,065,066,067,088,069,0610
6=1	INTEGER*4 DG11;DG12;DG13;DG14;DG15;DG16;DG17;DG18;DG19;DG20
7=1	INTEGER#4 D021, D022, D023, D024, D025, NORMAL, POWER
<u>5=1</u>	INTEGER*4 DG26, DG27, DG28, DG29, DG30
7-1	INTEGER*4 WIDTH, BEGIN, END, RMASK, I.K
0=1	LOGICALWA MSSF, TSSF, OSSF, DKNPSF, PGSCSF, INDPSF
1=1	LOGICAL*4 MEOTSF, LBCLSF, LBCPSF, LBCPSF, LPCPSF
2=1	LOGICAL #4 LSCPSF, MPEPSF, LEUPSF, LPHLSF, LSHLSF
3=1	LOGICALW4 TBIT, LSPPSP, FIRESP
4=1	LUGICAL*4 PISCSF, PZSCSF, P3SCSF, P4SCSF, P3SCSF
=1	LOUTCAL#4 SISCEF, SZSCSF, SZSCSF, S4SCSF, SSSCSF
6=1	LOGICAL*4 LVSVSF, LCSVSF, HVSVSF, HCSVSF
7=1	LOGICAL*4 AEBPSF, SEWPSF, HBPVSF, FEBPSF, FGCSS;
	LOGICAL*4 RCLSSF, LSTRNS, SLTRNS, INTIAL, SFTINF
3=1 7=1	LOGICAL #4 APBCSF, ASBCSF, DHMHSF, DHMLSF, DHMRSF, DTRNSF
()= <u>1</u>	LOGICAL*4 PAMASE, PAMESE, PENASE, PENASE, SEMASE, SEMESE
1=1	LUGICAL*4 SAMHSF, SAMLSF, ENCISE, PHOTSF, SHOTSF
2-1	LOUICALN4 MOUPCC, MLTSSF, RENTRY
3=1	LCGICAL*4 NOFAN, F4GPM, F8GPM, F12CPM, F1IME, NCLICH
4=1	LUGICAL*4 AENSF, APSSF, APMSF, ASSSF, ASMSF, APWSF, ASWSF
; <del>;}=</del> ;	INTEGER#4 PATVV, PPTVV, SATVV, SPTVV
Q=1	INTEGER*4 IAPBON, IASBON, IDHMSP, IDHMSR, IPAMPR, IPFMPR
7=1	INTEGERWA ISPMPR, ISAMPR, IENCYM, IPHOTM, ISHOTM, IDTANR
।श्र= <u>1</u>	INTEGERNA TRINDIR
() m 1	INTEGER#4 DIGIN(3), SUSMSG, NSUSMG
<b>∀=1</b>	INTEGER#4 LAND, TRNSTN, SEA, PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW
1=1	INTEGER#4 TES:1, TEST2, TEST3, HYBPSS, HYNDPS, ENGNON, ENGNOS
Z=1	INTEGER*4 CKPUMP, CKRAMP, CKPLST, CKRLST
3=1	INTEGER*4 CKPSLT, CKRSLI, CKRSLZ
4=1	INTEGER#4 TAENSP, TAPMSP, TASMSP, TAPSSP TASSSP, TAPWSP, TASWSP
<u>5=1</u>	INTEGER#4 DIRST, PRMOUP
<del>6=1</del>	INTEGER 4 TOECAY, TIMER, DMOOP, PUMOOP, DIGOUTTE
<del>'/=1</del>	INTEGER*4 SECFOF, FC/WNF, SLOPON .
<u>-</u> 2=1	INTEGER#4 DCTD, DRCLSE, GOTD, GROPEN, PCFWEP, DLGOFF, SLOWLR
<del>***</del>	INTEGER#4 SUDOWN, DLCVV, DHCVV, MNDPON, MBPON, TRKSTP, SURISE
itie 1	INTEGER # ERROLY, DTDGS, PDTDGS, PTDGS
11=1	INTEGERS 4 MUXI, AUX2, AUX3, AUX4, AUX3, AUX5, AUX5, AUX5, AUX5, AUX5, AUX6, A
12=1 12=1	INTEGERYA KOMO, RPMO, ROSS, RPSS, RES
	INTEGER*4 PTVV, STVV
<del>                                    </del>	REAL ** APECAN, ASUCAN, DHMSP, DHMSR, DTRNR, PAMTER

put yerr	CONTRACTOR ILIONOS TRESSETA ALAN
55=1 <del>56=1</del>	REAL*4 FDR,WJCNST,INTCPT(-1:1) REAL*4 PFMTPR,SFMTPR,SAMTPR,ENCTEM,FMUTEM,SMOTEM
57=1	REAL*4 BPMSP, BSMSP, ODHMSP, PNT18, AUX9, AUX10
<del>55=1</del>	REAL *4 BHUSP, DHUSP, DSUSP
<del>59-1</del>	REAL #4 APPS, ASPS, ASNSP, PMDIS, PMDIP
-60=1	REAL *4 PMTRO: DPMP / REPPT / PTREFF / REPST
	REAL #4 APMSF ASMSF & SMD1S & SHDFF
61-1	
62-1	REAL *4 SMTKOV DSMF V STREFF V REPT
<del>-6i3≈1</del>	REAL *4 DPFRTy PDIFFY DPFWLY BSFRTy SBIFFY DPSNU
<del></del>	REAL*4 PROIS PROFP APSO ASSO
<del>45-1</del>	REAL *4 PPTROX DPPP , REPPP , PPMEFF , REPSP
<del>66=1</del>	REAL*4 OPBIS/SPBFP/MAXMSP/TREP/DES
<del>47=1</del>	REAL+4 SPTRQ, DSPP, SPMEPP, REPP, ALPHSP, ALSHSP
<del>-66-1</del>	REAL *4 - 14LF MSP + 14LSMSP + MAXWSP + AUXPOW + TRNPOW + TOROUE
<del></del>	REAL#4 K1+K2+K3+K4+K5+K6+K7+K3+K9+K10
<del>70-1</del>	REAL#4 M15M65M55M65M75M85M9
71-1	REAL+4 M13,M14,M15,M16,M17,M18,M19,M20
<del>72-1</del>	NEAL#4-M21+M22+M23+M24+M25+M26+M27+M28
73-1	REAL+4 M29, M30, M31, M32, M33, M34
74=1	REAL#4 BHMSFB(4), PAMPR(10), SAMPR(10), PFMPR(10), SPMPR(10)
<del>7/5-1</del>	- INTEGER#4 M2+M2+M10+M11+M12
76=1	INTEGER#4 M35, M36, M37, M38, M37, N40
<del>77=1</del> -	
<del>/3=1</del>	CUMMON /BITFNC/ RESULT, MASK, NAME
79-1	COMMINION /BITFNC/ BIT, BIT1, E1T2, BIT3, BIT4, BIT5, BIT6, BIT7, BITS, BIT9
*************************************	COMMON /SITTNC/ SITIO, SITII, SITI2, SITI3, SITI4, BITI3, SITI6, SITI6
<del>81=1</del>	- COMMON /DITFNC/ BIT20, BIT21, BIT22, BIT23, BIT24, BIT25, DIT26, DIT27
7. 7. 11.	
32-1	
<del>- 133-1 </del>	COMMON /BITTNC/ BIT40, BIT41, BIT42, BIT43, BIT44, BIT43, BIT43, BIT47
13-4-1	COMMON /BITTNC/ BITTS BITTS BITTS BITTS BITTS BITTS BITTS BITTS
<del>25-</del> 1	
<del>86-1</del>	COMMON /BITFNC/ BEONT, DEONTO, BEONTT, BEONTZ, BEONTZ, BEONTA, BEONTS
137=1	- COMMUN /BITCHO/ WIBTH1, WIBTH2, WIBTH3, WIBTH4, WIBTH5, WIDTH6, WIBTH7
<del>133=1</del>	COMMON /BITFNC/ WIDTP, WIDT10, WIDT11, WIDT12, WIDT13, WIDT14, WIDT15
<del>(3/9 = 1</del>	COMMON /BITTNC/ BEGINS, BEONIE, WIDTHS, WIDTLE, JUAKIS, JUAKIS
<del>'''()1</del>	- COMMON /BITFNC/ JCARD1-JCARD2-JCARDS-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD5-JCARD
- <del>1-4</del>	COMMON /BITTNO/ JOARS, JOARIO, JOARIS, JOARIZ, JOARIZ, JOARIZ, JOARIZ,
72=t	
<del>****</del>	<u>CENMON /BITTMC/ DO11, DO12, DO13, DO14, DO15, DO16, DO17, DG18, DG17, DG20</u>
<del></del>	COMMON /BITFNC/ DGZ1, DGZ2, DGZ3, DGZ4, DGZ5, NORMAL, POWER
95=1	COMMON /BITFNC/ DG26, DG27, DG28, DG29, DG30
<del>76=1</del>	COMMON /STTFNC/ WIDTH, SEGIN, END, RMASK, I, K
97-1	COMMON /ERROR/WSSF, TSSF, USSF, DKNPSF, PGSCGF, INDPSF
**************************************	COMMON /ERROR/ HEOTSF, LUCLSF, LURPSF, LUSPSF, LPCFSF
77=1	COMMON /ERROR/ LSCPSF, MFEPSF, LCOPSF, LPHLSF, LSHLSF
00=1	COMMON /ERROR/ LSPSF+FIRESF
:01=1	COMMON /ENKON/ PISCSF, FISCSF, FISCSF, P4SCSF, F5SCSF
1 <del>02=1</del>	COMMON /ERROR/ \$1805F.52303F.53303F.54303F.53303F
: 02-1 :03=1	COMMON /ERROR/ LVSVSF, LCSVSF, HVSVSF, HCSVSF
.03-1 <del>-04-1</del>	GOMMON /ERROR/ ACOPSE SEMPOR HOPVSF FEBRUS FOR COSS
· 15=1	COMMON / CRITIST / ROLOGY LOTTING SLTTING INTIAL SETTING
+++	COMMON /ERROR/ APDEST ASSEST BHMHSF, BHMLSF, DHMRSF, DTRNSF
	COMMON /ERROR/ FAMILISE, FAMILISE, PENNISE, PENLISE, SEMILISE
<del>( ( ) ) = 1</del>	COMMON /ERROR/ SAMUSE, SAMUSE, CACTOT PHOTOF, SHOTOF
<del>99=1</del>	COMMON / CRROITY - MOID C.C., MLTSSF, RENTRY
1.041	- COMMON YERRORY WORAN, FADAM, FROAM, FIZOAM, FIIME, NOLTOH
- <del>   </del>	COMMON /ERROR/ AENSE, APOSE, APMSE, ASSSE, ASMSE, AFWSE, ASMSE
112-1	Common /Cinduty iapocn, iasocn, idamse, idamse, itampe, itempe

110-1	
113=1	COMMON /CINOUT/ ISFMPR, ISAMPR, IENCTM, IPHOTM, ISHOTM, IDTRNR
114=1	COMMIN /CINCUT/ TRNDIR, DIGIN, DIGOUT, SUSMSG, NSUSMG
13-1	COMMON YOUNGUTY LAND, TRASTA, SEA, PARK, WIRRL, REVASE, DRIVE, HIGH, LOW
116=1	COMMON /CINOUT/ TESTI, TEST2, TEST3, HYB/SS, HYNDPS, ENGNOW, ENGMSG
117=1	COMMON /CINQUIT CKFCMF, CKRAMP, CKPLST, CKRLST
113=1	COMMON /CINQUIT/ CKPSLT, CKRSL1, CKRSL2
113=1	COMMON YCINOUTY IAENSP, IAPMSP, IASMSP, IAPSSP, IASSSP, IAPWSP, IASWSP
120=1	COMMON /CINOUT/ DTRST.PRMOOP.ERRDLY.DTDGS.PDTDGS.PTDGS
121-1	COMMON / CINOUTY TELLAY, TIMER, DMOOP, PDMOOP
122=1	COMMON /CINOUT/ SECFOF, PCFWNP, BLGPON
<del>  25=1</del>	COMMON VOINOUTY GETTY GROLISE, GOTTE, GROPEN, POFWEP, DEGOFF, SEGMER
<del>  _                                    </del>	COMMON /CINOUT/ SUDDWN.DLCVV.DHCVV.MNBPON.MBPON,TRKSTP.SURISE
125-1	COMMON /CINOUT/ PATVV, FFTVV, SATVV, SFTVV
1.26 <del>-1</del>	COMMON /CINOUT/ AUX1, AUX2, AUX3, AUX4, AUX5, AUX6, AUX7, AUX8, IDES
127-1	COMMON /CINOUT/ RSMS, RPMS, RSSS, RPSS, RES
120=1	COMMON /CINOUT/ PTVV.STVV
127=1	COMMON /CALC/ AFECAN, ASBCAN, DAMSE, DHMSR, DTRNR, PAMTER
1 <del>30=1</del>	COMMON /CALC/ FDR.WJCNST
131=1	COMMON /CALC/ FFMTPR,SFMTPR,SAMTPR,ENCTEM,PHCTEM,SHUTEM
13221	COMMON /CALC/ DFMSP,DSMSP,DDRMSP,PNTIG,AUX7,AUX10
133-1	COMMON /CALC/ DHWSP, DHWSK, DRWSP, DSWSP, INTERT
134=1	COMMON /CALC/ APPS, ASPS, AENSP, PMDIS, PMDFP
135=1	COMMON /CALC/ FMTRQ, DFMP, REPPT, PTREFF, REPST
135=1	COMMON /CALC/ APMSP, ASMSP, SMDIS, SMDIF
·	
107=1	COMMON /CALC/ SMIRWADSMIRASINEFFAREFI
ing-i	COMMON /CALC/ DPFR1,PDIFP,DPPWJ,DSFR1,SUIFP,DPSWJ
107-1	COMMON /CALC/ PPDISTPDIFT, ARSSIT ASSSIT
(#0=1	COMMON /CALC/ PPTRW, DPPP, REPPP, PPMEFF, REPSP
41=1	COMMON /CALC/ SPDIS, SPDFF, MAXMER, TREF, DES
1-12-1	COMMON /CALC/ SPTRG, DSPP, SPMEPF, REPP, ALPMSP, ALSMSP
140=1	COMMON /CALC/ ALFWSP, ALSWSP, MAXWSP, AUXPOW, TRNAON, TORQUE
144=1	COMMON /CALC/ KI,K2,K3,K4,K5,K6,K7,K8,K7,K10
145-1	COMMON YEALOY DHMSPE, PAMPA, SAMPA, PRIMPA, SIMPA
1-1-0-1	COMMON 7MOOT/ MI.M2.M3.M4.M5.M6.M7.MS.M9.MIC
<del>:47=1</del>	COMMON /MOUT/ MII:MI2:MI3:MI4:MI3:MI5:MI7:MI8:MI7:M20
148 <del>-1</del>	COMMON /MOUT/ M21+M22+M23+M24+M25+M26+M27+M23+M29+M30
149-1	COMMON /MOUT/ M31,M32,M33,M34,M35,M36,M37,M38,M39,M40
150=1	COMMON /MOUT/ M41-M42-M43-M44-M45-M46-M47-M46-M49-M50
	DETERMINE DESIRED MOTOR SPEEDS ACCORDING TO PRESENT MODE OF OPER
<del></del>	
	LANDBORNE
1 r	
151	IF(FYDDS, EQ. HIGH) THEN
1 1 1	DNT1C=M29
<del>156</del>	
154	PNT10=N2S
155	ENUIF
· · · · · · · · · · · · · · · · · · ·	1F(FRMOOP.EQ.LAND) THEN
	AMOD AMALA CAMPA
	AMSP=MAX (APMSP)
157	ANSPERAK (APROPARSISE)  IF (DHISPESOD.LT.AMSP) THEN
157 158	
157	THIEN THEN
157 158 159	IF (DHMSP+300.LT:AMSP) THEN IF (DDHMSP.OT.AMSP) THEN
158 159 150	IF (DHMSF+300.LT.AMSF) THEN IF (DDHMSF.OT.AMSF) THEN DHMSF-AMSF-FNTIO
157 158 159	IF (DHMSF+300.LT.AMSF) THEN IF (DDHMSF.DT.AMSF) THEN DHMSF-AMSF-FNTIG
157 158 159 150 41	IF (DHMSF+300.LT.AMSF) THEN IF (DDHMSF.OT.AMSF) THEN DHMSF-AMSF-FNTIO ELSC DHMSF-ODHMSF-FNTIG

## FORTRAN-86 COMPILER +F2: DEMOS.FOR

-	•
145	DHMSP=DHMSP*DHMSR
100	CDHMSP=BHMSP
<del>-167</del> -	IF (TRNDIR. EQ. 1) THEN
<del>-168-</del>	DPMSP=BHMSP*DTRNR
169	DOMOP-DHMOP
170	
<del>171-</del>	DPMSP-BHMSP
<del>172</del>	DEMSP-BHMSP+BTRNR
173	ENDIE - SHIRT BINAN
<del>174-</del>	ENSIF
1/4	G
	S - TRANSITION (DESIRED WATERUET GPEEDS)
	C. C
175	IF (PRHOOP. EQ. TRHSTN) THEN
<del>176</del>	AWSP-MAX (ARWSP, ASWSP)
177	IF (BHWSP+300.LT.AWSP) THEN
<del> 176-</del>	IF (OBHISP, GT, ANSP) THEN
179	DIWSP-AUSP FNT18
100	
	FULLOD AND DECEMBER OF
<del>- 181</del>	DINSP-BEHUSP PNT16
<del>182</del>	ENBIF
- <del>103</del> -	ENDIF
	BHW9P <b>→BHW</b> 9P × BH <b>MS</b> R
<del>155</del> -	OBHWSP-BHWSP
<del></del>	IF(TRNBIR.EQ.1) THEN
<del>127-</del>	DPWSP=BHWSP+BTRNR
188	BSWSP-BHWSP
189	ELSE
<del>-190</del>	TPWSP-UHWSP
<del>-191</del>	DSWSP=BHWSP+BTRNR
<del>192-</del>	ENDIF
	ENDIF
	C SEABORNE
194	IF (PRM60P, EQ. SEA) THEN
<del>195</del>	- DrWSP=DHWSP*DHWSR
196	DPW3P=BHW3P
<del>197</del>	DEWSP-DHWSP
198	ENDIF
199	RETURN
	END
<del></del>	
	••
	A. 58

### STORAGE REQUIREMENTS FOR MODULE DEMOS:

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1	CODE ARZA SIZE	00345H	3370		
٠. ا	CONSTANT PREA SIZE	0000EH	140		
	VARTABLE AREA SIZE	00013H	240		
	MAXIMUM STACK SIZE	00012H	180		
	/ERROR/	0012CH	3000		
	/MOUT/	000C6H	1980		
	/CINQUT/	0019CH	4120		<u>,</u>
	/BITFNC/				
		00268H	616D		
	/CALC/	0020CH	524D		
		•			
	O ERRORS DETECTED.				<del></del>
	O WARNINGS ISSUED.				
	ENTRY POINT IS 10H				
_	FLUATING-FOINT OPERATION	AS MEKE DEI	VERA LED.		
	COMPILATION OF DEMOS CO	TIPLE IE.			
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			<del></del>		
	O TOTAL ERRORS DE ECTED		<del></del>		
	O TOTAL WARNINGS ISSUED				·
	END OF FORTRAN-86 COMPI	THITON.		,	
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	210-521-77-148-27-2-4
- <del> </del>	SUBROUTINE ECAN INCLUDE (:F2:COMMON.FOR)
-2-1	INTEGER:4 RESULT, MASK(16), NAME
-9m1	INTEGER#4 BIT, BIT1, BIT2, BIT3, BIT4, BIT5, BIT6, BIT7, BIT3, BIT9
4-1	
_ <del>5=1</del>	
<del>_6=</del> 1	INTEGER#4-BIT30.BIT31.BIT32.BIT33.BIT34.BIT35.BIT36.BIT37.bIT38-
<del>-7-</del> 1	INTEGER*4 BIT40, BIT41, BIT42, BIT49, BIT44, BIT45, BIT46, BIT46, BIT47, BIT48
-8-1	INTEGER+4 DIT19-BIT29-BIT39-BIT49
<del></del>	
<del>10=1</del>	INTEGER#4-BEGN9; BEGN10; BEGN11; BEGN12; BEGN13; BEGN14; BEGN15; BEGN16
11-1	INTEGER*4-WIDTH1-WIDTH2-WIDTH3-WIDTH4-WIDTH5-WIDTH6-WIDTH7-WIDTH
12-1	INTEGER## WIDT9, WIDT10, WIDT11, WIDT12, WIDT13, WIDT14, WIDT15, WIDT16
19-1	INTEGER*+ JCARD1, JCARD2, JCARD3, JCARD4, JCARD3, JCARD6, JCARD7, JCARD
14-1	INTEGER#4-dearty, dearto, dearti, dearte, dearts, dearts, dearts
15-1	INTEGER#4 D01, D02, D03, D04, D05, D06, D07, D08, D09, D010
16-1	INTEGER*4 D011, D012, D013, D014, D015, D016, D017, D018, D019, D020
17-1	
18-1	INTEGER#4 B026, B027, B028, B029, B030
19-1	INTEGER*4 HIDTH BESIN, END, RMASK, I.K
20-1	LOGICAL#4 MSSF, TSSF, BSSF, DKNPSF, PGSCSF, INDFSF
<del>21-1</del>	LOGICAL*4 HEGTSF, LOCLSF, LORPSF, LOSPSF, LPCFSF
22-1	LOGICAL*4 LOCESF, HEBESF, LEGESF, LEHLSF, LOHLSF
20-1	LOGICAL*4 TDIT, LOPPOF, FIREOF
24=1	Lüdichle4 F1808F,F2808F,F3808F,F4808F,F5808F
25=1	LOGICAL*4 313CSF, 323CSF, 335CSF, 543C3F, 533CSF
26-1	LUGICAL*4 LVSVSF, LCSVSF, HVSVSF, HCSVSF
27=1	LOGICAL*4 AEDPSF.SEWPSF.HDPVSF.FEBPSF.PGCSSF
<del>28-1</del>	LÜĞICAL#4 ACLSS LETANS, SLTANS, INTIAL, SETINE
29-1	LOGICAL*4 APSCSF, ASSCSF, DHMHSF, DHMLSF, DHMRSP, DTRNSF
<del>30=1</del>	LOGICAL#4 FAMHSF, PAMESF, PFMHSF, PFMLSF, SFMHSF, SFMLSF
31-1-	LOGICAL*4 SAMMSF, SAMLSF, ENCISE, PHOTSF, SHOTSF
32-1	LOSICAL*4-MUCPCC: MLTSSF; RENTRY
<del>- 23-1</del>	LOGICAL*4 NOFAN, F40FM, F80FM, F120FM, FTIME, NOLTCH
34=1	LOGICAL*4 AENSF, AFSSF, AFMSF, ASSSF, ASMSF, AFWSF, ASWSF
35-1	-INTEGER#4 PATVV; PFTVV; SATVV; SFTVV
36=1	INTEGER*4 TAPBEN, TASBEN, TEHMSP, TEHMSR, TPAMPR, TPFMPR
<del>37-1</del>	INTEGER*4 ISPMPR, ISAMPR, IENCTM, IPHOTM, ISHOTM, IDTRNR
39-1	INTEGER+4 TRNDIR
39=1	INTEGER*4 DIGIN(3), SUSMSG, NSUSMG
40=1	INTEGER-4 LAND, TRNSTN, SEA, PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW
41-1	INTEGER#4 TEST: TEST2: TEST3: HYDPSS: HYNDPS: ENGNON: ENGMSG
42=1	INTEGER#4 CKPUMP, CKRAMP, CKPLST, CKRLST
43=1	INTEGER#4 CKPSLT,CKRSLI,CKRSL2
44=1	INTEGER#4 IAENSP, IAPMSP, IASMSP, IAPSSP, IASSSP, IAPWSP, IASWSP
<del>15=1</del>	INTEGER*4 DTRST, PRIMOOF
46-1	INTEGER: 4 TOELAY, TIMER, BMOOF, POMOOF, DIGOUT(8)
47=1	INTEGER#4 CECFOF PCFWNP, BLOPON
<del>43=1</del>	1NTEGER*4 GCTB+GRCL9E+GOTD+GROPEN+PCFWDP+DLGOFF+SLUWER
49=1-	INTEGER#4 SUBSWIN, BLEVV, BHCVV, MNDPON, MBPON, TRKSTP, SURISE
<del>-50×1</del>	- INTEGER*4 ERABLY-DIDGG-PDIDGG-PTDGG
<del>51-1</del>	INTEGER*4 AUX1, AUX2, AUX3, AUX4, AUX5, AUX5, AUX7, AUX3, IDES
52-1	- INTEGER*4 RSMS, RPMS, RSSS, RPSS, RES
<del>83=1</del>	INTEGER*4 PTVV-GTVV
54-1	REAL+4 APUCAN, ASUCAN, DHMSF, DHMSR, DTRNR, FAMTER

	55≂1	REAL*4 FDR, WJCNST, INTCPT(-1:1)
	36 <b>=</b> 1	REAL*4 PEMTPR, SEMTPR, SAMTPR, ENCTEM, PHOTEM, SHOTEM
	3 <del>77=1</del>	REAL*4 DEMSE, DSMSP, ODMMSP, PNTIG, NUX9, AUX10
	<del>'56=1 −</del>	REAL#4 DHWSP, DHWSR, DFWSP, DSWSP
_	<del>35-1</del>	REALTA APPS, ASPS, AENSP, PMDIS, PMDFP
	<del>60=1</del>	REAL#4 PHTRQ, DPMP, REPPT, PTREFFYREPST
	&i=1	REAL*4 APMSP, ASMSP, SMDIS, SMDFP
	62=1	REAL*4 SMTRQ, DSMP, STREFF, REPT
	63-1	REAL*4 DPFRT, PDIFP, DPFWJ, DSFRT, SDIFP, DPSWJ
_	64=1	REAL*4 PPDIS; PPDFP; APSSP; ASSSP
	65=1	REAL*4 PPTRQ, DPPP, REPPP, PPMEFF, REPSP
	66=1	REAL#4 SPDIS, SPDFP, MAXMSP, TREP, DES
	67=1	REAC*4 SPIRQ, DSPP, SPMEFF, REPP, ALPMSP, ALSMSP
	63=1	REAL*4 ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TORQUE
	67=1	REAL*4 K1, K2, K3, K4, K3, K6, K7, K8, K7, K10
	<del>70=1</del>	REAL#4 MI,M4,M5,M6,M7,M8,M9
	71=1	REAL*4 M13, M14, M15, M16, M17, M18, M19, M20
	<del>72=1</del>	REAL*4 M21, M22, M23, M24, M25, M26, M27, M28
_	<u> </u>	
	73=1	REAL*4 M29.M30.M31.M32.M33.M34
	74=1	REAL 4 DHMSPD(4), PAMPR(10), SAMPR(10), PEMPR(10), SEMPR(10)
	75=1	INTEGER*4 M2,M3,M10,M11,M12
	76=1	INTEGER*4 M35, M36, M37, M38, M39, M40
	77=1	INTEGER*4 M41, M42, M43, M44, M45, M46, M47, M48, M49
	78-1	COMMON /BITTMC/ RESULT, MASK, NAME
	79=1	COMMON /BITFNC/ BIT, BITT, BITZ, BITS, BIT4, BIT5, BIT6, BIT7, BITS, BIT9
	<del>30=1</del>	COMMON /BITFNC/ BIT10, BIT11, BIT12, BIT13, BIT14, BIT15, BIT15, BIT17
	-31=1	COMMON /DITFNC/ DITZO, DITZ1, DITZ2, DITZ3, DITZ4, DITZ5, DITZ6, DITZ7
	32=1	COMMON /BITFNC/ BIT30, BIT31, BIT32, BIT33, BIT34, BIT35, BIT36, BIT37
	33=1	COMMON /BITFNC/ BIT40, BIT41, BIT42, BIT43, BIT44, BIT45, BIT46, BIT47
<b>.</b>	<del>34=1</del>	COMMON /BITPNC/ SIT19, BIT29, BIT39, BIT49, BIT13, BIT23, BIT38, BIT48
	35=1	COMMON / DITFNC/ DEGINI, BEGIN2, BEGIN3, BEGIN4, BEGIN5, DEGIN/
	<del>-მბ=1</del>	COMMON /BITPNC/ BEGNY, BEGN10, BEGN11, BEGN12, BEGN13, BEGN14, BEGN15
	<del>-37=1</del>	COMMON /BITFNC/ WIDTH1, WIDTH2, WIDTH3, WIDTH4, WIDTH5, WIDTH5, WIDTH7
	-83≈1	COMMON /SITENC/ WIDTY, WIDTIO, WIDTII, WIDTI2, WIDTI3, WIDTI4, WIDTIS
	<del>-89=1</del>	COMMON /BITTING/ DEGINS, DEGNIS, WIDTHS, WILLTIG, JCARDS, JCARIS
	<del>- ÿÜ=1</del>	COMMON /DITENE/ JEARD1, JEARD2, JEARDS, JEARD4, JEARD5, JEARD5, JEARD7
	*1=1	COMMON /EITFNC/ JCARY, JCARIO, JCARII, JCARIZ, JCARIS, JCARI4, JCARIS
		COMMON /BITTHC/ DG1,DG2,DG3,DG4,DG5,DG5,DG7,DG3,DG9,DG10
	- <del>73-1</del>	
	_ = _	COMMON /BITTNC/ DG11,DG12,DG13,DG14,DG15,DG16,DG17,DG18,DG19,DG20
	74=1	COMMON /BITFNC/ DG21, DG22, DG23, DG24, DG25, NORMAL, POWER
	<del>-95-1</del>	COMMON /BITFNC/ DG26, DG27, DG28, DG29, DG30
	<del>76=1</del>	COMMON /BITTNC/ WIDTH, BEGIN, END, RMASK, I, K
	<del></del>	COMMON /ERROR/MSSF, TSSF, GSSF, DKNPSF, FGSCSF, INDPSF
	75=1	COMMON TERRORY HEOTSF, LBCLSF, LBRPGF, LBGPSF, LPCPSF
		COMMON /ERROR/ LSCFSF, HFDFSF, LEOFSF, LPHLSF, LSHLSF
	<del>100=1                                  </del>	COMMON /ERROR/ LSPPSF,FIRESF
_	101=1	COMMON /ERROR/ FISCSF, PZSCSF, PSSCSF, P4SCSF, PSSCSF
	102=1	COMMON /ERROR/ SISCSF, SZSCSF, SZSCSF, SASCSF, SZSCSF
	1:03=1	COMMON /ERROR/ LVSVSF, LCSVSF, HVSVSF, HCSVSF
	104-1	COMMON /ERROR/ AEBPSF, SEWPSF, HSPVSF, FEBPSF, FGCSSF
_	<del>105=1</del>	COMMON /ERROR/ RCLSSF, LSTRNS, SLTRNS, INTIAL, SFTINE
	<del>103=2</del>	COMMON /ERROR/ APBCSF, ASBCSF, DHMHSF, DHMESF, DHMRSF, DTRNSF
	<del>107=1</del>	COMMON /ERROR/ PANHSF FAMILSE, FFMILSE, FFMLSE, SEMHSE, SEMLSE
_	<del>*08=1</del>	COMMON /ERROR/ SAMHSF, SAMLSF, ENCTSF, PHOTSF, SHOTSF
/	19=1	COMMON /ERROR/ MOOPCC, MLTSSF, RENTRY
	<u> </u>	COMMON /ERROR/ NOFAN,F4GPM,F2GPM,F12GFM,FTIME,NCLTCH
		COMPON AERRORA MUCHNICACEMICOUTINELZUEINE ILIUEINULIUS
`	.10=1 :11=1	COMMON /ERROR/ AMNSF, AFSSF, AFMSF, ASSSF, ASMSF, AFWSF, MSWSF

113=1	COMMON /CINOUT/ ISFMPR, ISAMPR, IENCTM, IPHOTM, ISHOTM, IDTRNR
114=1	COMMON /CINOUT/ TRNDIR.DIGIN, DIGOUT, SUSMSG, NSUSMG
<u> </u>	COLITON /CINOUT/ LAND, TRNSTN, SEA, PARK, NTRAL, REVASE, DRIVE, HIGH, LOW
115-1 117-1	COMMON /CINOUT/ TEST1, TEST2, TEST3, HYBPS3, HYMBPS, ENGNON, ENGMSO
118=1	COMMON /CINOUT/ CKMUMP, CKRAMP, CKPLST, CKRLST COMMON /CINOUT/ CKPSLT, CKRSL1, CKRSL2
11921	COMMON /CINOUT/ IAENSF, IAPNSF, IASNSF, IAESSF, IAESSF, IAENSF, IASWSF
120=1	COMMON /CINOUT/ DTRST, PRMOOP, ERROLY, DTDCS, PDTDCS, PTDCS
121=1	- COMMON / CINCUT/ TDCLAY; TIMER, DMCOP; PBMCOP:
<del>122=1</del> -	COMMEN /CINCUT/ SECFOR POFUND DESPON
129-1	COMMON /CINOUT/ GOTD, ORCLOST, GOTD, GROPEN, POPWER, DLOGFF, SLOWER
124=1	COMMON / SINGUT/ SUBOWN, BLOVY BHOVY, MNBPON, MBPON, TRKSTP, SURISE
125-1	COMMON /CINOUT/ PATVV, PFTVV, SATVV, SFTVV
126-1	- COMMON /CINCUTY AUXI, AUX2, AUX3, AUX4, AUX5, AUX6, AUX7, AUX6, IDES
127-1	COMMON /CINCUT/ ROMS, RPMS, ROSS, RES
128-1	COMMON /CINOUT/ PTVV:STVV
129-1	COMMON /CALC/ AFECAN, ASDCAN, DHMSP, DHMSR, DTRNR, FAMTER
130-1	- COMMON /CALE/ FDR, NUCNST
131-1	COMMON /CALC/ PEMTER, SEMTER, SAMTER, ENCTEM, PHOTEM, SHOVEM
<del>132=1</del>	COMMON /CALC/ DPMSP, DSMSP, ODMMSP, PNTIG, AUX9, AUX10
188-1	COMMON /CALC/ DHWSP, DHWSR, DPWSP, DSWSP, INTCFT
134-1	COMMON /CALC/ APPS, ASPS, AENSP, PMDIS, FMDFP
135=1	CUMMON /CALC/ PMTRG.DPMP.REPPT.PTREFF.REFST
<del>136=1</del>	COMMON /CALC/ AFMSP, ASMSP, SMDIS, SMDFP
157=1	COMMON /CALC/ SMG. DSMP, STREFF, REFT
138=1	COMMON /CALC/ DEFRITEDIES, DEFWG, DSFRI, SDIFE, DESWG
139-1	COMMON /CALC/ PPDIS. PPDFP. APSSP. ASSST
140=1	CUMMON / CALC/ PPTRQ, DPPP, REPPP, PPMEFF, REPSP
41=1	COMMON / CALC/ SPDIS, SPDIP, MAXMSP, TREP, DES
142-1	COMMON / CALC/ SPTRQ, DSPP, SPMEFF, REFP, ALPMSP, ALSMSP
143=1	COMMON /CALC/ ALFWSP, ALSWSP, MAXWSP, AUXPOW, TRMPOW, TORQUE
144=1	COMMON /CALC/ KI, K2, K3, K4, K3, K6, K7, K3, K9, K10
145-1	Common /Calcy Dhinspy, Pampa, Sampa, Prima, Spinpa
146=1	COMMON /MOUT/ M1. 12. M3. M4. M3. M6. M7. M8. 119. M10
147-1	COMMON /MOUT/ MII, MIZ, MI3, MI4, MI5, MI6, MI7, MI8, MI9, M20
1 -1	COMMON /MOUT/ M21, M22, M23, M24, M25, M26, M27, M23, M29, M30
143-1	COMMON /MOUT/ M31, M32, M33, M34, M35, M36, M37, M38, M39, M40
150=1	COMMON /MOUT/ M41, M42, M43, M44, M45, M46, M47, M48, M49, M50
	LOGIC TO TURN ON COOLING PANS
<del>151</del>	IF: (FHOTEM.07.180). CR. (SHOTEM.0T.180). OR. (ENCTEM.07.210)) THEN
152	F120FM=.TRUE.
153	EUSE IF ((PHOTEM. GT. 165).L (ShOTEM. G) . (65).OR. (ENCYEM. G7. 205))
	THEN
154	F8GPM=.TRUE.
155	ELSE 1FT(FHOTEM.GT.140).UR.(SHUTEM.GT.140).UR.(ENCTEM.GT.200))
	+THEN
156	FAGPM=.TRUE.
157	<del>- ELUC</del>
<del>150</del>	NECTAN - FRUE,
159	ENDIF
160	בוב מול לווים ביו ביו לווים בי
	TURN ON FAME CALC AUX POWER USAGE
<del>151 -</del> -	TF1 AMOOF.EQ.LAND) THEN
m. */ *	
162	IF (NOPAN) AUXPOW-0, 11961 PASP-0.61056E-04#AENSF##2

# FORTRAN-86 COMFILER : F2: ECAN, FOR

165	DIGOUT(1)=DIGOUT(1).OR.DG21
166	ENDIF
167	IF (F8GFM) THEN
C	AUXPOW=0.62975E=01*AENSP=0.26446E=05*AENSP**2
	* ************************************
166	AUXPOW=0.11461*AENSF-0.63883E-04%AENSF**Z
169	+ +0.24006E-074AENSP##3-0.34259E-11#AENSP##4-27.471 DIGOUT(1)=DIGOUT(1).OR.DG22
170	ENDIF
171	IFIFIZGPM) THEN
<u> </u>	AUXFOW=0.62973E-01*AENSP-0.26446E-03*AENSP**2
	+ -0.99715E-03#AENSP**3-0.22257E-11*AENSP**4-15.593
172	AUXPOW=0.1046*AENSP=0.55165E-04*AENSP**2
	* ** *********************************
173	DIGOUT(1)≃DIGOUT(I).OR.DG23
174	EADIF
175	Chil
176	IF(.NOT.(NOFAN)) DIGOUT(Z)=DIGOUT(2).OR.DIT39
177	NOPAN *: FRESE.
173	F4GPM=.FALSE.
179	FROTH FALSE.
130	F12GP 1=. FALSE.
<i>/</i> 31	IF (FRMOOP.NE.LAND) THEN
182	AUXFOW=0.62074E-02#AENSP+.22895E-04#AENSP**2
·	+ -0.91623E-08*AENSC**3-0.88974E-12*AENSC**4+4.3816
133 <del>134</del> -	016007(1)=D16007(1).OR.DG21
<u>-</u>	CALC DESTRED ENGINE SPEED
<del></del> e	
1:5	TREF=AUXFOWPREFT
136	DES=21.973*TREP-0.13364*TREP**2+0.27021E-03*TREP**3+363.02
187	**************************************
138	1F (DES. 01. 2300.0) DES=2800.0
į,	
	SET BUCKETS TO DESIRED ANGLE
ں <del></del>	Driviol E - DTANK
190	IF (DANOLE, LT. O) DANGLE=0
191	IFT(PRMOOP.EQ.SEA), AND. (DTRST.EQ.KEVRSE)) THEN
192	DANGLE=DANGLE*90
173	IF TAPBUSE APBUAN = 0.0
174	IF(ASDUSF) ASBUAN=0.0
<del>195</del> -	9T3WED=90.0
1-76	
1-7	DANGLE-YO.O-DANGLE*90.U
<del>190</del>	STOWED=0:0
513	
	IF (FRIDEF.EG.LAND) THEN  CANGLE-90.0
<del></del>	

204	IF(TRNDIR.EQ.1) THEN
205	DIGOUT(3)=DIGOUT(3).AND.DG24
-206	DIGOT(1)=DIGOUT(1).AND.DG27
207	######################################
208	IF ( thandle-Arman). LT4.3) DIGOUT(3)-DIGOUT(3). OR. DG26
209	IF ((STOWED ASSCAN).LT. 4.5) DIGGUT(1)=DIGGUT(1).GR.DG29
210	IF ( OTCWED-ASDCAN). OT. 4.5) DIGCOT(1) -DIGCOT(1). OR. DG28
211	ELSE
212	DIGOUT(1)=DIGOUT(1).ANB.DG27
213	BIGOUT(3)-BIGGUT(3): AND: BG24
214	IF ((BANGLE ASBCAN). GT. 4.5) DIGGUT(1) = DIGGUT(1). OR. DG28
215	IF ( BANGLE ASSCAN) LT. 4.5; DIGOUT(1)-BIGOUT(1).CR. BG29
214	
	- IF((STOWED APPEAN).LT. 4.5) DIGGUT(S) DIGGUT(S).DR.DG26
213	IF ( (STOWED APOCAN).CT.4.5) DIGGUT(9)=DIGGUT(3).CR.BG25
<del>-</del>	
219-	RETURN
<del></del>	- END
~	,
7	
4	
1.	
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<del></del>	
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	,
<del></del>	A.64

FORTRAN-86 COMPILER :F2:ECAN.FOR

FORTRAN-86 COMPILER ERROR MESSAGES AND SUMMARY

STORAGE REQUIREMENTS FOR MODULE ECAN: CODE AREA SIZE 009E4H 25320 CONSTANT AREA SIZE HAAOOO 1700 VARIABLE AREA SIZE **OCCOOCIT** 120 MAXIMUM STACK SIZE 180 00012H **YERRORY** 0012CH 3000 THOUTT DODCEH TASD /CINOUT/ 0017CH 4120 /EITPNC/ 00268H 616D 7CALC/ **COZOCH** 524D O ERRORS DETECTED. O WARNINGS ISSUED. ENTRY POINT IS DACH FLUATING-POINT OPERATIONS WERE CENERATED. COMPILATION OF ECAN COMPLETE. O TOTAL ERRORS DETECTED. -O TOTAL WARNINGS ISSUED. END OF FORTRAN-S& COMPILATION. A.65

SERIES-III FORTRAN-86 COMPILER V1.0 COMPILER INVOKED LY: :FI:FORTS6.36 :FZ:FREQIN.FOR CODE TITLE(13:30:00 II DEC.85) <del>SUBRUUTINE FREGIN</del> INCLUDE (:F2:COMMON.FOR) ---<del>INTEGER#4 RESULT, MASK (16), NAME</del> <del>INTEGER\*4-BIT10.BIT11.BIT12.BIT13.BIT14.BIT15.BIT16.BIT17.SIT18</del> 5-1 <del>INTEGER\*4 DIT20,DIT21,BIT22,BIT28,DIT24,DIT25,DIT26,DIT27.BIT28</del> <del>INTEGER\*4 BIT30vBIT31vBIT32vBIT33vBIT34vBIT35vBITS4vBIT37vBIT37vBIT38</del> <del>INTESER#4 BIT40/BIT41, BIT42, BIT48, BIT44, BIT45, BIT46/BIT47, BIT48</del> <del>||-1</del> <del>INTEGER#4-01T19+01T29+01T39+01T49</del> 7-1 -<del>-10-1</del> <del>INTEGER\*4</del> Beon<del>g, Beon10, Beon11, Beon12, Beon13, Beon14, Beon15, Beon16</del> +1-1<del>INTEGER#4 WIDTH1,WIDTH2,WIDTH3,WIDTH4,WIDTH5,WIDTH5,WIDTH7,WIDTH3</del> <del>INTEGER\*4 WIGT9,WIGT10,WIGT11,WIGT12,WIGT15,WIGT14,WIGT15,WIGT16</del> 12-1 1:1-1 <del>INTESER×4 JCARD1, JCARD2, JCARD3, JCARD4, JCARD5, JCARD6, JCARD7, JCARD8</del> 1-1-1 <del>INTEGER\*4 JCAR9, JCAR10, JCAR11, JCAR12, JCAR13, JCAR14, JCAR15, JCAR16</del> <del>16≈1</del> 17-1 INTEGER: 4 DO21 - DO22 - DO29 - DO24 - DO25 - NORMAL - POWER <del>INTEGER#4 6626,6827,6828,6829,6830</del> ---<del>integer\*4-width, begin, end, rmask, i, k</del> <del>LOCICAL+4 MSSF,TSSF,CSSF,BKNFSF,PCSCSF,INDFS</del>F ----<del>tootcal =4 Heotsf, Locisf, Lorfsf, Losfsf, L</del>psfsf, Lfcfsf 7 LOGICAL\*\*\* LSCPSP, HFDPSF, LEGPSF, LPHLSF, LSHLSF <del>Lögical+4-tlij;Loppor,Fires</del>f -----<del>ĿŨĠĨĊŔĿĸŶſĔĬŎŬĠĔ</del>ŗĔ<mark>ŹĠĊĠĔŗĔĠĠĠĠĔŗŦŶĠĊĠĔŗĔŎĠĊ</mark>ĠĔ **~**4. 1 11== T <del>ĿŨŨĬĊŔĿĸ4-ĿVĠVĠĔ</del>ţĿĊĠVĠĔţĦVĠVĠĔţĦĊĠVĠĔ <del>"7=1</del> <del>LOGICAL\*4 AEBRSF, SEWPSF, HIPVSF, FEBFSF, FGCSS</del>F 70-1 <del>LOGICHL\*4 RCLSSF,LSTRNS,SLTRNS,INTIAL,SFTIN</del>P <del>LOGICAL\*\* APCCSC, ASBUSE, D. MHSE, DHMLSE, DHMRSE, DTRNS</del>E <del>LOGICAL#4 PAMHSFYPAMLSPYPPMHSPYPPMLSPYSPMISFYSPMISF</del> <del>38-1</del> <del>LOGICAL» 4</del> SAMHSF «SAMLSF, ENCTSF, FHOTSF, SHOTSF <del>~~~</del>1 <del>LOGICAL#4 MÖÖPCC,MLTSSF,RENTR</del>Y ----<del>LCGICAL#4 NOFAN,F4GPM,F8GPM,F12GPM,FTIME,NCLTCH</del> LODICAL\*4 AENSF, APSSF, APMSF, ABSSF, ASMSF, APWSF, ASWSF -4-1 INTEGERAA FATVV: FFTVV: SATVV: SFTVV <del>-1-1</del> INTEGER#4 IRPBCN, IASBCN, IDHMSP, IDHMSR, IPAMPR, IPFMPR 33-1 INTEGER\*4 ISFMPR, ISAMPR, IENCIM, IPHOTM, ISHOTM, IDTRNK 37-1 <del>35-1</del> NTEGERNA TRNDIR -INTEGER#4 DIGIN(3), SUSMSG, NSUSMS 40= INTEGER\*4 LAND, TRNSTN, SEA, PARK, NTRAL REVRSE, DRIVE, HIGH, LOW 41-1 integer\*4 Testi, test2, test3, hyppss;hy ndps, engnon, engmsg INTEGER\*4 CKPUMP, CKRAMP, CKPLST, CKRLS. INTEGER#4 CKPSLT, CKRSLI, CKRSLZ 43=1 44=1 Integer\*4 Iaensf, Iapmsp, Iasmsp, Iapssp, Iasssp, Iapwsp, Iaswsp INTEGERAA DIRST, PRINCO 45=1 <del>INTEGEN\*4-TØELAY,TIMEN,BMOOP,PDMOOP,DIGOUT(O)</del> 47=1 INTEGER\*4 SECTOF, PSFUND, DLSPON 41-1 <del>-INTEGER\*4-BETS+BRELBE+BOTS+BREN+PEFHBP+BLBBFF,BLBBR</del> <del>49-4</del>1 <del>INTEGER\*4 SUBBWN, DLCVV, BHCVV, MNDPON, MEPON, TRKSTP, SURISE</del> - (-) - 1 <del>INTESER×4 ERROLY-STOGO-FOTOGO-PTOGO</del> <del>INTEGER\*4 AUX1,AUX2,AUX3,AUX4,AUX5,AUX6,AUX7,AUX8,IDE</del>8 <del>INTEGER#4 ROMO+RPMO+ROSS+RF3S+RES</del> المحجة بمد <del>ĬŊŸĔĠĔŔĸ⋪⋰₽Ŧ∀∀⋾⊴Ŧ∀∀</del> <del>54=1</del> REMER4 AMBOAN, ASBOAN, DHMSA, BYRNA, MAMTER

A.66

	55=1	REAL*4 FDR, WUCNST, INTCPT(-1:1)
	56=1	REAL*4 FFMTPR, SFMTPR, SAMTPR, ENCTEM, PHOTEM, SHOTEM
	, <del>57=1</del>	REAL*4 DPMSP, DSMSP, ODHMSP, PNTIG, AUX7, AUX10
<b>L</b> -	′चश≃।	REAL*4 DHWSP, DHWSR, DPWSP, DSWSP
	<del>59=1</del>	REAL*4 APPS, ASPS, AENSP, PMDIS, FMDFF
	<u>-30=1</u>	REAL*4 PMTRQ.DPMP.REPPT.PTREFF.REPST
	61=1	REAL*4 APMSP, ASMSP, SMDIS, SMDFP
	52=1	REAL*4 SMIRQ, DSMP, STREFF, REPT
	43-1	REAL*4 DPFRT, FDIFP, DPFWJ, DSFRT, SDIFP, DPSWJ
	64=1	REAL*4 PPDIS, PPDFP, APSSP, ASSSP
_	65=1	REAL*4 PFTRQ, DPPP, REPPP, PPMEFF, REPSP
	66=1	REALW4 SPD15, SPDFF, MAXMSP, TREP, DES
	67=1	REAC## SPTRQ, DSPF, SPMEFF, REPF, ALPMSP, ALSMSP
	63=1	REAL #4 ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPON, TORQUE
	<del>03-1</del>	REHLW4 K1, K2, K3, K4, N3, K6, K7, K8, K7, K10
	70=1	REAL#4 \.I., M4. M5. M6. M7. M8. M9
	71=1	REAL*4 MI3, MI4, MI5, MI6, MI7, MI8, MI9, M20
	72=1	REAL #4 M21, M22, M23, M24, M25, M26, M27, M28
	73=1	REAL*4F M29, M30, M31, M32, M33, M34
_	74=1	REAL*4 DHMSPB(*1, PAMPR(10), SAMPR(10), PFMPR(10), SFMPR(10)
_	75=1	INTEGER## M2, M3, M10, M11, M12
	76=1	INTEGER** MG5, MG6, MG7, MG8, MG9, M40
	77=1	INTEGER*4 M41, M42, M43, M44, M45, M45, M47, M48, M47
	<del>-73=1</del>	COMMON /BITFNC/ RESULT, MASK, NAME
	79=1	COMMON /BITFNC/ BIT, BITI, BIT2, BIT3, BIT4, BIT5, BIT6, BIT7, BIT5, BIT9
_	- <del>50=1</del>	COMMON /BITENC/ BITIO.BITI1.BITI2.BIT13.BIT14.BIT15.BIT16.BIT17
	<del>31-1</del>	COMMON /BITFNC/ DITZO, BITZ1, BITZ2, BITZ3, BITZ4, BITZ5, BITZ6, BITZ7
	<del>-22=1</del>	COMMON /BITFNC/ BIT30, BIT31, BIT32, BIT33, DIT34, BIT35, BIT36, BIT37
	183=1	COMMON /BITFNC/ BIT40, BIT41, BIT42, BIT43, BIT44, DIT45, BIT46, DIT47
	134×1	COMMON /BITTNC/ BITT9, BIT29, BIT39, BIT49, BIT13, BIT23, BIT33, BIT48
_		COMMON /ETTENC/ EEGINI, DEGINZ, DEGINS, DEGINS, DEGINS, DEGING, DEGINS
	55-1	COMMON /BITPNC/ BEGN9, BECN10, BEGN11, BEGN12, BEGN13, BEGN14, BEGN13
	<u>36−1</u>	COMMON /BITFNC/ WIDTHI, WIDTH2, WIDTH3, WIDTH4, WIDTH5, WIDTH6, WIDTH7
	<del>-27-1</del>	
	<u>88=1</u>	COMMON /BITENC/ WIDTY, WIDTIO, WIDTII, WIDTIZ, WIDTIZ, WIDTIA, WIDTIZ
_	139=1.	COMMON /BITFNC/ BEGINS, BEGNIS, WIDTHS, WIDTIS, JCARDS, JCARIS
_	90-1-	COMMON /SITENCY JCARDI, JCARD2, JCARD3, JCARD4, JCARD5, JCARD5, JCARD5
	71=1	COMMON /BITFNC/ JCAR9, JCAR10, JCAR11, JCAR12, JCAR13, JCAR14, JCAR15
_	-92-1	COMMON /BITFNC/ DG1, DG2, DG3, DG4, DG3, DG6, DG7, DG8, DG9, DG10
-	-73-1	COMMON /BITFNC/ DG11, DG12, DG13, DG14, DG15, DG16, DG17, DG18, DG19, DG20
-	<del>- 94</del> =1	COMMON /BITFNC/ DG21,DG22,DG23,DG24,DG25,NORMAL,POWER
	<del>-95=1</del> -	COMMON /RITFNC/ DG26, DG27, DG28, DG29, DG30
	<del>-96-1</del>	COMMON /BITMO/ WIDTH, BEGIN, END, RMASK, I, K
	<del>- 97=1</del>	COMMON /ERACR/MSSF, TSSF, GSSF, EKNPSF, PGSCSF, INDFSF
_		COMMON /ERROR/ HEOTSF, LBCLSF, LBCRSF, LBCRSF, LBCRSF, LFCRSF
		COMMON /ERROR/ LSCFSF, HFDFSF, LEOPSF, LPHLSF, LSHLSF
		COMMON /ERROR/ LSPPSF,FIRESF
	100=1	
	101=1	COMMUN /ERROR/ PISCSF,PISCSF,PISCSF,PISCSF,PISCSF
_	102=1	COMMON /ERROR/ \$1503F,52505F,53505F,54505F,53505F
_	103=1	COMMON /ERROR/ LVSVSF, LCSVSF, HVSVSF, HCSVSF
_	104-1	COMMON /ERROR/ AEDPSF, SEWPSF, HUPVSF, PEDPSF, FOCSSF
-	105=1-	COMMON /ERROR/ ROLSSF, LSTRNS, SLTRNS, INTIAL, SFTINE
	106=1	COMMON /ERROR/ APACSF, ASACSF, DHMHSF, DHMLSF, DHMRSF, DTRNSF
	107-1	COMMON /ERROR/ PAMHSF, PAMLSF, PFMHSF, FFMLSF, SFMHSF, SFMLSF
	<del>108=1</del>	COMMON /ERROR/ SAMHSF, SAMLSF, ENCTSF, FHOTSF, SHOTSF
٠.		COMMON /ERROR/ MODIFICE, MLTSSF, RENTRY
• •	<del>09=1</del>	
<b>-</b> ·	09=1 (10=1	COMMON /ERRORY NOMAN, MAGPM, MESOPM, MIZOFM, MITTER, NOLTCH
· ·		COMMON /ERROR/ NOMAN, MAGMM, MAGMM, MIZORM, MIZORM, FILZORM, FILZO

	113=1	COMMON /CINOUT/ ISFMPR, ISAMPR, IENCTM, IPHOTM, ISHOTM, IDTRNR
_	114=1	COMMON /CINDUTY TRNDIR, DIGIN, DIGOUT, SUSMSG, NSUSMG
	<del>-15=1</del>	COMMON /CINOUT/ LAND, TRNSTN, SEA, PARK, NTRAL, REVASE, DRIVE, MICH, LOW
	4-16-1	COMMON /CINOUT/ TEST1, TEST2, TEST3, HYDRSS: HYNDRS, ENGNON, ENGMSG
_	<del>117-1</del>	COMMON YOUNGUTY CKPUMP, CKRAMP, CKPLST, CKRLST
	1:0-1	CUMMON /CINGUT/ CKPSLT.CKRSL1.CKRSL2
_	117-1	COMMON /CINOUT/ IAENSF, IAPMSP, IASMSP, IAPSSP, IAPSSP, IAPWSP, IASWSP
	120=1	COMMON /CINCUT/ DTROTYPRMOCPYERROLYVDTOCSYPOTOCSYPTOCC
	121-1	COMMON /CINCUT/ TBELAY, TIMER, BMOOP, PDMOOP
	122-1	- COMMON /CINGUT/ SECFOF FOF WNP DLGFON
	123-1	COMMON /CINCUT/ COTD-ORCLSE-COTD-CROPEN-FCFWDP-DLOOFF-SLOWER
	124-1	COMMON /CINCUT/ CUEOWN, DLCVV, BHCVV, MMBPON, MEPON, TRKSTP, SURISE
	125-1	COMMON /CINGUT/ PATVV, PFTVV, SATVV; SFTVV
	126-1	COMMON /CINOUT/ AUX1, AUX2, AUX3, AUX4, AUX5, AUX6, AUX7, AUX6, IDES
_	127-1	COMMON /CINOUT/ ROME ROME ROSS RES
	<del>120=1</del>	COMMON /CINOUT/ PTVV. STVV
	127-1	COMMON /CALC/ APECAN, ASBCAN, DHMSP, DHMSR, DTRNR, FAMTER
	130-1	COMMON /CALC/ FDR+WUCNST
	131-1	COMMON /CALC/ PEMTPR, SEMTPR, SAMTPR, ENCTEM, FHOTEM, SHOTEM
	132-1	COMMON /CALC/ DPMSP-DSMSP-OCHMSP-FN716-AUX9-AUX10
	133-1	COMMON /CALC/ BINGP, BINGP, BOWSP, INTEPT
	184=1	COMMON /CALC/ APPS, ASPS, AENSP, PMDIS, FMDPP
	195=1	COMMON /CALC/ PMTRQ. DPMP.R.PPT, PTREFF, REPST
-	136-1	COMMON /CALC/ APHOP, ASMSP, SMDIS, SMDFP
_	137=1	COMMON / CALC/ SMTRG, USMP, STREFF, REFT
	138=1	COMMON /CALC/ DPFRT, FDIFF, DPPWJ, DSFRT, SDIFF, DPSWJ
	199-1	COMMON /CALC/ PPDIS, PPDFP, AFSSP, ASSSP
	140=1	COMMON /CALC/ PATRO, DEPP, REPPE, PEMEER, REPSP
	¥41=1	COMMON / CALC/ SPDIS, SPDFF, MAXMSP, TREF, DES
٠	142-1	COMMON /CALC/ SPIRO, DSPP, SPMEFF, REPP, ALPMSP, ALSMSP
	143=1	COMMON /CALC/ ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TORQUE
	144=1	COMMON /CALC/ KITKZTKSTK4TKSTK6TK7TKSTK10
	<del>-145-1</del> -	COMMON /CALC/ DHMSPD, PANDR, SAMPR, PEMPR, SEMPR
	146=1	COMMON /MOUT/ M1:M2:M3:M4:M5:M5:M5:M5:M5:M5:M10
	147=1	COMMON /MOUT/ M11,M12,M13,M14,M13,M16,M17,M18,M19,M20
_	140-1	
	149-1	COMMON /MOUT/ M31+M32+M33+M34+M35+M36+M37+M38+M39+M40
	150=1	COMMON /110UT/ M41-1142-1443-144-145-146-146-146-146-146-146-1
		CONVERT ACTUAL ENGINE SPEEED
-	<del></del>	
	151	AENSF=FLOAT(IAENSF)*600.0/134.0
	152	1F(ADS(M1-AENSF).GT.300.0) THEN
_		
_	153	IF (AENSP .GT. MI) THEN
_		IF (AENSP .GT. HI) THEN AENSP=MI+300.0
	153	
	155	AENSP=M1+300.0
	153 154 155	AENSP=M1+300.0
	153 154 155 156	AENSP=M1+300.0 ELSE AENSP=M1-300.0
	153 154 155 156 157	AENSP=M1+300.0 ELSE AENSP=M1-300.0 ENDIF
	183 184 185 186 187 188	AENSP=M1+300.0  ELSE  AENSP=M1-300:0'  ENDIF  ENDIF
	183 184 185 186 187 188	AENSP=M1+300.0  ELSE  AENSP=M1-300:0'  ENDIF  ENDIF
	153 154 155 156 157 153 159 ———————————————————————————————————	AENSP=M1+300.0 ELSE  AENSP=M1-300.0  ENDIF ENDIF M1-AENSP  CONVERT ACTUAL MOTOR AND ACTUAL SPREEDS
	193 194 195 196 197 193 199 6 6 8	AENSP=M1+300.0 ELSE  AENSP=M1-300.0  ENDIF ENDIF M1-AENSP  CONVERT ACTUAL MOTOR AND ACTUAL SPREEDS  APMSP-FLOAT(IAPMSP) #600.0/24.0
	193 194 195 196 197 193 199 6 6 8	AENSP=M1+300.0 ELSE  AENSP=M1-300.0  ENDIF ENDIF M1-AENSP  CONVERT ACTUAL MOTOR AND ACTUAL SPREEDS  APMOP=FLSAT(IAPMSP) #600.0/24.0 ASMSP=FLOAT(IASMSP) #600.0/24.0
	193 194 195 196 197 193 199 6 6 8	AENSP=M1+300.0  ELSE  AENSP=M1-300.0  ENDIF  ENDIF  M1=AENSP  CONVERT ACTUAL MOTOR AND ACTUAL SPREEKET SPEEDS  APMSP=FLSAT(IAPMSP)*600.0/24.0  ASMSP=FLSAT(IASMSP)*600.0/24.0  APSSF=FLSAT(IAPMSP)*600.0/24.0
	103 104 105 106 107 103 109 0 0 0 160 61	AENSP=M1+300.0 ELSE  AENSP=M1-300.0  ENDIF ENDIF M1-AENSP  CONVERT ACTUAL MOTOR AND ACTUAL SPREEDS  APMOP=FLSAT(IAPMSP) #600.0/24.0 ASMSP=FLOAT(IASMSP) #600.0/24.0

	C AFSSP=QAFSSP+5.0
	C ELSE
	C APSSP=OAPSSP=5.0
	C ENDIF
	C ENDIF
	C ENDIF C ASSSP=FLOAT(IASSSF)*600.0/304.0
	U IF (ABS(ASSSP-DASSSP), GT. 5.0) THEN
	C IF(ASSSP.GT.GASSSP) THEN
	C ASSSP#UASSSP+5.0
	C ELSt.
	C ASSSP*OASSSP=3.0
	C ENDIF
	C DPSP*ADS(QAPSSP-APSSP)*FDR
	C DSSP=ABSTOASSSP-ASSSF7#FDR
	C IF ((DTRST .EQ. DRIVE).OR. (DTRST .EQ. REVRSE)) THEN
	C IF (ABS(CAPMSP - APMSP).GT.DPSP) THEN
	C IF(APMSP .GT. DAPMSP) THEN C APMSP=APMSP+DPSP
	C ELSE
	C APMSP#APMSP-DPSP
	C ENDIF
· ····································	C ENDIF
	C IFTABSTOASMSP - ASMSP).GT.DSSP) THEN
	C IP(ASMSP.GT. OSPMSP) THEN
	C GLSE
	1 HSMSP=ASMSP=DSSP
· · · · · · · · · · · · · · · · · · ·	C ENDIF
	C ENDIF
	C IP(ABS(GAPMSP-APMSP).NT.300.0) THEN C IP(APMSP.GT. GAPMSP) THEN
	APMSF=API.SP+300.0
	C ELGE
	C APMSP=APMSP-300.0
	ENDIF
	C ENDIF
	C IF (ADS (UASMSP WASMSP) .GT. 300.0) THEN C IF (ASMSP .GT. DASMSP) THEN
	ASMSP=ASMSP+300.0
	C PLSE
	D ASMSP=ASMSP~300.0
	C ENDIF
	C ENDIF
·	C MI=AENSF
	C DAPESP
	C ONSESP-ASSEP
	C CAPTISE=APMSE
	O OASMSF=ASMSF
	C CONVERT WATERJET SPEEDS
103	C APWSP=FLOAT(1APWSP)*600.0730.0
165 164	##WSP=FEDAT(IAFWSF)#600.0730.0
- <del>-</del> ·	
	A.69

205 206	ELSE ASWSF=.TRUE.
204 205	APWSP=ASWSP
203	APWSF=.TRUE.
202	ifidimiarwsp.aswsp).eq.o) Then
-201-	IF (ALS (AFWSP-ASWSP). GT. 400) THEN
-200-	IF (PRMSOP. EQ. SEA) THEN
499	ENDIF
<del>- 173</del>	ASWSP-ASMSP-WJCNST ENDIF
<del>- 15</del> 6	ASWSF - TRUE,
195-	IF ((ASWSP-ASMSP #WJCNST): LT400) THEN
-194	ENDIF
<u> </u>	APWSP=APMSP=WJCNST
192-	APWSP=. TRUE.
1 <del>7 1</del>	IF (PRMOOF, EQ. TRNSTN) THEN IF (APWSP-APMSP+WJCNST)T400) THEN
199 - 190	ENDIP
<del>-188</del>	ENDIF
-137	ENDIP
<del>-186</del>	ĤSSSF=ASMSF/FBR
105	ASSSF TRUE.
-104	ELSE
<u>-499</u>	ASMSP=ASSSP*FDR
-162	ASMSF - TRUE:
<del></del>	IF (ABS (ASMSP-ASSSP*FDR).CT.200) THEN
<del>- 1 7 7</del>	ENDIT
<del>176</del>	ENDIF
177	APSSP-APMSP/FDR
176-	APOSF TRUE.
175	ELSE
174	APMSP-APSSP*f DR
- <del>172</del>	IF (DIM (APMSP , APSSP * FBR) , EQ. 0) THEN
<del></del>	IF (AUS (APMSP-APSSP*FDR), GT, 200) THEN
-170 -	IF ( (PRIMODITY EQ. LANG) + OR. (PRIMODITY EQ. TRINSTN >) THEN
169	IF ( (DTRST.EG. BRIVE) . OR. (BTRST.EG.REVRSE)) THEN
·····	C THE WITEHELT OF THE BITTE CIT TIEFCHOL
	G GHECK FOR MAG FICKUS FAILURES ON THE MOTORSY SPROCKETS
	C CHECK COD MAC CYCKUC CATLUDGO ON THE WATER A CODE OF THE
160	ENDIF
1.67	AENSF-, TRUE:
	#EM3F=300.1

0030	1E	PUSH	DS
003D	ZESELESAGO	MOV	DS. CS: @CDATA\$FRAME
<del>0042</del>	55	PUSH	
0043	ಕಟ್ಟರ	MOV	BP, 3F
0045	31EC1400	300	्रान् , <u>विका</u> र्
0042	2555060000	MOV	ES, CS: CCONST
0048 0048	7526DB06C400	FLD	EST TAENSP
₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	-982ED80E0A00	FMUL	CS: CONST+UAH; /
0034 003A	782ED6380E00		
0050	2ESE060400	MOA FDIA	CS: CONST+OEH; /
<del>ბბგე</del>	9826D91E7400	- FSTP	ES.CST@CONST+4H ES.AENSP: 7
<del>೦೦೬೫</del>	98	WAIT	
<u>ಾಂದರ್</u> -		MOV	ES, CS: CONS) +6H
<del>0071 -</del>	702507060000	- PLD	E3:111
<del>ዕዕንን -</del>	2E3E080400	MOV -	ES, CS: @CONST+4H
<del>3077でー</del>	782809087400	- AFT	ESTAENSE: /
<del>00/32</del>	788802 788802	- FST	2705+2H
0002 0083-	700002 7007C7	FXCH	6705+1H
೧೦೩೨ <del>೧೦೫೨ -</del>	780003	- F3T	@T05+3H
იიაა <del>იიას</del>	*SDEE1	- <del>-                                  </del>	
00≎₽ <del>003</del> E	7807E1	FABS	
_	· · · · · · · · · · · · · · · · · · ·		
<del>0091-</del> <del>0097-</del>	932209061200 980969	FLD	CSYECUNST+12H; 6
	• • · - ·		
009A	75DED7	FCO: 1PP	, 6
<del>ŎŎŶĔ</del> <del>ŎŎŶĔ</del>		PUS.1	AX
	PODDOCEAPF		CDP3. @STACK#2H
00A3	33	POP	HX , I
ijij <b>;</b> 14	75	SAHF	######################################
- CHOO	プロジャプピアム	PSTP	CURJ. GTEMP3+VAH
でいれき… でいれき…	7703		\$+5li
COAD		- PLD	<u> </u>
OOAE	-50000EF6		CDP1. GTEMP3+OAH
TOUR	7607C1	FLD	- 6703+1H
00 <u>00</u>	73D7C9	PXCH	<b>७</b> चित्र्मान
<del>vouc-</del>	7HDED7	PCOMPI	
4400	50	FUSH	AX
びのいし	PUDDBEEAFF	FSTSW	IBPJ. GSTACK+ZH: 1
<del>voc1</del>	58	POP	AX , I
0002	9E	SARF	
<del>*************************************</del>	7BD37EEC	FSTP	CBPJ.@TEMP3+14H; 1
<del>ひかごう -</del>	7703	UA .	**************************************
0009	E91400	JIMP ,	@@000001
<del>ᲛᲛ</del>	*BDE6EEC	FLD	CDF1. @TEMP3+14H; 1
0000	952ED5061200	- FADD	CS: GCONSTY124; 1
ᡠᡠᡱᡠ᠁	7026071E7400:	FSTP	ESTAENSP: 1
<i><b>''''''</b></i> ''''''''''''''''''''''''''''''	73	WAIT	
- למניטר	£51000		<u> </u>
	@@0000	01:	TATEMENT U. LEL
20050		i heliti i	TO COMPOSITE HENT # 156
<del>00⊑0</del>	<del>-20000</del> 60600	MOV	E9, 69: QCONST+6H
<del>00£5</del> -	<del>762669060000 -</del>	FLD	ES:M1
OCES	<u> </u>	<del>- 178013</del>	CS- 200NST-12H; 7
1 <del>3()(*1</del>	- <del>2EnEd60400</del> -	– MüV	ES, CS; ECONST+4H
<b>3076</b>	7826071E7400	FSTP	ESTHENSP: 7
づめずじつ	*13	WAIT	
50, 5			

### FORTRAN-84 COMPILER :F2:FREGIN.FOR

### @@0000000:

			; STATEMENT # 139
<del>OOFD</del>	2E3E360400	MOV	ES, CS: @CONST+4H
0102	71:26119067400	FLD	ES: RENSI
<del>0103</del>	<u> </u>	MOV	ES, CS: CCONST #6H
<del>0100 -</del>	<del>9826891E0000</del>	-FSTF	ES:M1 ; 7
0115	<del>78</del>	WAIT	
0114 0119	<del>-2::0::0:0000</del> - <del>9::26BB06::000</del> -	Mô∀ FL:0	ES: TAPMSP
	<del>-952539060400</del>	- FLB	CS+CCONST+OAH: 6
011F 0125	-208EC2	FMULP	CS-CCONST-OHITS O
0123	962.709061600	FLB	- CS- CCUNST+1 HI 6
012E	988EF9	FDIVP-	- OUVECORUTY I DITTO
0131	2E8E060400	- MEV	ES, CS+@CONST+4H
<del>0136 -</del>	-9026091E9400	FSTP	ESIAPHSPI 7
<del>-0138 -</del>	<del>98</del>	WAIT	COMMINDITY
0130 013D	2E2E060000	MOV	ES.CS: CCONST
0135 <del>0142</del>	-9 <del>82688068800</del>	<del>- FLB</del>	- CS+ TASMSP
0143 -	-982E09060A00	FLD	
0148 0148	-988669	- FHULP	16
0151 -	-982EB3361690	— <del>[8]V</del>	
<del>0157</del>	-2ESE060400	—M⊡V	ES, CS: @CUNST+4H
<del>0157</del>	9826091E9800	<del>- 737P -</del>	ES: ASMSF; 7
<del>0162</del> -	<del>982087127000</del>	- WAIT	COTTOTION /
<del>0163</del>	<del>- 2535060000</del>	HOV	E3.C3: @CONST
<del>0168</del> -	<del>- 98268806800</del>	- FLD	ESTAPSS
016E	<del>- 932EBB00B000</del> - <del>932EB9060A80</del>	- FLD	- CS: ECONST+OAH; 6
<del>0174</del>	980E29	FMULP	
0177	- 982EB8361A00	FDIV	CS: @CONST+1AH; 7
<del>0170</del> -	-2E8E060400	- MUV	ES, C3: @CON31+4H
<del>-0182</del>	<del>982669166400</del>	FSTF	ES:APOSP; /
0102 <del>0188</del> -	75205,125400 <del>7</del> 5	WHIT	
<del>-0189</del>	<del>2E3E080000</del>	- M⊡V	ES, CS: QCCNST
13E	<u> 782605060800</u>		ES-TAPWSP
<del>0194</del> -	- 932ED9050A00	PLD	CS: CONST+OAH; 6
- <del>0196</del> -	-980EC9	FMULF	5 6
0190	732ED9061E00	PLD	CS: GCONST+1EH; 6
01A3	ラカルビアク	FDIVE	3 0
- <del>01</del> A6-	-98091E0000	<del></del>	APWSF ; 7
OIAB	9 <del>6</del>	WATT	
-01AC-	<del>- 982408040000</del>	- FLD	ES: TASWS
0182	- PEZEDSOEOROO		LS: CCONST-OAH; /
<del>0138</del>	982E58361E00	<del>FDIV</del>	CS- CONST-1EH: 7
OIBE	- 5805150400	- FST1"-	ASWSY 7
0103	70	WAT'	
min 4	-	FLD	CS: CCONST+22H7 7
0108	2E3E060400		ES, CS; CCONST-4H
OICE-	7825D31E7400	FCOMP	ESTAENSP7 /
0105	50	PUSH	AX 1 1
-01100-	<del>-90000CEATE</del>	<del>– ršžšu</del> -	<del>- LDP3.e3TA</del> CK+2H
-0100-	-59	<del></del>	AX 1 1
<del>-9100-</del>	<del>-5</del> E	- SAHF	
-0198-	<del>-77</del> 03		<del></del>
Oib	<del>- É94000</del>		- 6600000
and the second to			E9+09: <b>0</b> :0N9T+0H
4)41-54	· <u>264000000000</u>		
01E2	<del>- 260606000</del>	TEST	ES:LFUFSF:1H

		•		•
f	01EF	E93000	JMP	@@000003
_	OIF?	28F5082C0001	TEST	ES:LSCP3F,1H
٦	OIFS-	7503	JNZ	\$+3H
~	OIFA-	E92500		<b>₽</b> ₹000003
-	OIFD -	982ED9062600	FLD	CS: ECONST+26H; 7
_	203	22# <b>E</b> 080400	MOV	ES, CS: @CONST+4H
۰,	0208	9826D91E74CJ	-45,6-	FS: AENSP: 7
	020E	73	- WIT-	1.04 NGINOT 7
	020F	20300000000000000000000000000000000000	HOV:	
	C214	-2607061 210100	– .	ESTCS: @CONST+8H
			1100	ESTAENSF, IH
	0218	26070612010000	MOV	ESTAENS-+2H, OH
_				; %TATEMENT # 169
7	<del>02;11</del> ; "	ZE37060000	MUV	ES, CS (CONST
	- לביני	Z6 062000	VCM	HX; ES: DTRST
	ייטי יגס	256216E200	- <del>MOV</del>	
	02	266B0E6000	100	DX.ES.DIRST+2H
	0238	26331£8200		UX, ES; DK VE
			MOV	BX,F3; DRIVE+2H
		8709	XCHG	εχ·cx
	C. 30	50	PUSH	AX ; i
	Ozite		PUSH	DX 3 2
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	CALL	TWL150
	0240-		707	AX
٦,	924	N. V	<del></del>	- DX
1	0. <b>2</b> .477	7503	JN?	\$+5H
			- JMP	<u> </u>
٠,		#####600 <del>00</del>		ES, CS: eCONST
•	ウエン・・	258% TOO		CX; ES: REVRSE
	200	-25501E7E00		BX, ES; KEVRSE+2H
• (	<del>ogga-</del>	-8702	— .::::::::::::::::::::::::::::::::::::	AX,DX
٦,	0290	8709	XCHG	EX,CX
		<b>サカカウウウウウウサー</b>	CALL	70.150
		7503	:NZ	\$+5 H
				- <u>ee000005</u>
		£95003		<u> </u>
	· • · • · · ·		=	
				; STATEMENT # 170
٠.,	674 e-	<del>- 2E85060000</del>	11017	25,05: (0.0)(5)
		<del>-266</del> 1066480	MOV	- AVACS: PRIMOOF
	<del>0275</del>	268N16E&20		
	0278-	263D()ご536()	MOV	"N' L'S-PRHO07+2H
			- MOV	XXXXXLAND
		2698x26A09		EX: USILAND VZH
		-871	x Chib	BX.CX
	<del>028</del> 6	_	-PUSH	
	<del>028</del> 7 —		PU3H	12% ; 2
-,	೦೨೫೯****	<u>~####################################</u>	many of the same	1:22:30
7	023r -	53		AX ; 2
4	<del>0288 -</del>	-5A	7107	
τ	<del>ozer -</del>	78 <del>03</del>		\$45X
-4	6 <u>2</u> 91	-E923 <del>(10)</del>		
-4	1774-	<del>᠆ᡗ᠅ᢆᢝ᠐᠘ᢗᡕ᠐᠐ᡤ᠁</del> ᠂᠁		
;	<u> - جون</u>			- CX1ESTRIBSTN
	ــتىچىرىور	-269Ht@6E64		Litty EST TRY ST NY2H
·-•		-6761	х <del>ёнь</del>	AXTEX
	O SPECIAL COMMANDER OF THE PROPERTY OF THE PRO			DX, CX
- <del>(</del>	<u> </u>			
•	9245- 9245	<u>-\$784</u>	~ 1,340 61±	10.150 - \$+0H

	02AE	E90300	JMP	<u>@@000007</u>
-	<del>-0281 -</del>	<del>- E98A01</del>	<del></del>	<del>- 6600000</del> 6
	<del></del>	<del>- 6600000</del>	<del>/ •                                     </del>	
	OCAL A	0505010400	******	STATEMENT # 171
	<del>-0204 -</del> <del>-0205 -</del>	<del>-2585060400</del>	HOV	ES-CS-ECONST+4H
	<del>028F</del>			ESI APOSP
	<del>0205</del> -	<del>-9326080E1900</del> <del>-932609069400</del>	FMUL	ESTER 17
	0268	-5:BDDD2	F61	ATON OU
	<del>-020</del> E-	980909	FXCH	
	<del>0201</del>		<del>- FST</del>	- <del>2783+3H</del>
	02B4	-920FE9	FGUDF	21001011
	0207	7887E1	FABS	
	02BA	-980EBF062A00	FLB	CSI CCONST + 2AH : 7'
	0250-	- 5805C5	-F'X+3+1	278C+1/1
	<del>025</del> 5-	-968EB9	-FCOMPP	2100111
_	<del>-02E6</del>	-50	-PUSH-	<u> </u>
	0257	SUBBLEAFF	F6T6U	CDP3. &STACK+2H
_	02EC	-50	-POP	
_	<del>-02EB</del>	- <del>7</del>	SAHE	MX
	02EE-	95007EF6	CSTP	EBP3. @TEMPS+OAH
_	<del>-02F2</del>	7703		\$+3H
-	02F2	- E96280		# # # # # # # # # # # # # # # # # # #
_	02F7	- 7DDB6EF6	<del>FLD</del>	EEP1. &TEMPS+OAH
	OZFB	-986909	FXCH	
_	OZFE	9 <b>A</b> 0000000	CALL	¥TOS+1H MäEfitin
_	<del>-0302</del>	- <del>792E0F062E00</del>	-FLD	CS1 @CONST / 2EH : 1
	<del>- 0307 -</del>	988EB9	-FCCMPP-	CS- ECONOT FZERV 1
	<del>0306</del> -	-0200	-MOV	+X; 8X
_	-030E	50	<del>- PUG</del> I+	4X + 1
	<del>viste</del>	- 9000BEEAFF	FSTSH-	EDP3. @STACK+2H; 2
_	<del>-031</del> 4	-58	<del>- 1000</del> -	AX 12 CONCRETE 2
		- 250041	AND	AX-4100+
	0:10-	350040	XOR	-#Xy 4000H
	0018	7403	JE	3+5 +
	<del>0310</del> -	E92E00	- <del></del>	<del>42000009</del>
	0550	-2555060S	-MOV	ES, CS: &CON:)T+GH
	0325	<del>- 262706180</del> , <del>J100 -</del>		ES; APRISE . 1 H
	-0326	-26C7061A010000-	-MOV	ESTAPMSF 2H, OH
	<del>0333</del>	2E8E060460	-MOV	ES. CS. ECONSTYAN
_	<del>+++++</del> +	<del>-&gt; 92509</del> €/60400	FLD-	E3:1/237: 2
_	<del>033E-</del>	<del>?b25800E1000</del>	FHUL	E91FbR-1-1
	0044	982689189400	FSTP	- KSTAFTISFS 1
_	094A	96	WATT	
_	<del>VSAE</del> -	<del>- ビランあらら </del>	<del> </del>	<del></del>
		<del></del>		
				5 STATEMENT # 176
_	<del>034€</del>	2E8E050800	<del>-MöV</del> -	ES, CS; &CONST+CH
	0.353	26070614010100	- MOV	ESTAPSSET, IH
_	<del>- 035A</del> -	<del>-2687861601008</del> 0	-HOV	- <del>ES1 AP33/11 2H1 0H</del>
	<del>-0361</del>	2E8£960400		ES+96+060N3T+4H
	<del>- 0366 -</del>	<del>- 9826L98694</del> 0 <del>0 -</del> -	FLD-	ESTAPHISE
	<del>-0360-</del>	-91:24Dt/961000-	<del>-FüI∀</del>	-E3+FBR-+
		<del>-9826851EB400</del> -	<del>-FOTF</del>	- <del>ES+APSSP+ 7 </del>
	<del>9978</del> -	<del>- 5ti</del>	-t-1 <del>/4</del> <u>1</u>	
~				
		<del></del>		
				- A./4

	<del>0376</del>	<b>780003</b>	FXCH	810S+1H
_	<del>- 0396</del> - <del>0399</del>	780003 900009		ET05+3N
	<del>- 0377</del>	735721	FSUSP-	, 6
	- <del>039F</del>	752EDF062A00	PLD	
_	- <del>05A5</del> -	<del>- 985909</del>	FXCH	CS- &CONST-2AH 7
	OSAS	780207	FCOMPE	
-	03AB	50	PUSH	HA .
	OSAC-	PEDDECERFF	TSTSW-	CBP3. @STACK+2H
	0331	<del>58</del>	POP	AX 1
	0382	<del>-                                      </del>	SAHF	
	<del>0383</del>	78087EF6	FSTP-	COPT. ETEMPSYORM
	9387	7703	JA	**31
	0389	E78200	JIMP	66000011
_	<del>0350</del> <del>0300</del>	90006676 900709	FLD	COP 3. GTEMP3+OAM
_	_ <del>0300</del> _ <del>0303</del> -	7807070000000	FXCH	\$TOS+IH
	<del>- 0303</del>	982EDF062E00	PLD	MQERDIM
_	<b>0308</b>	PEDED9	FCOMPE	CS: 8CONSTYZEH: 1
	<del>0301</del>	3300	HOV	AX, AX
	0983	50	PUSH	AX :
-	<del>0384</del>	PODDSEEAPP	7315W	EBPJ. #STAC. #2H; 2
	<del>10387</del>	58	POP	AX ; 1
	ರತಿಲಿಗೆ -	250041	AND	9X.4100H
	<u> </u>	350040	XOR	AX, 4000H
_	<u> </u>	7403	JE -	**5h .
	0362	<del>- 22200</del>	JMP	<b>88000012</b>
	<u> </u>	2282060300	MOV	ES, CS: CONST+8H
	OSEN <del>OSF1</del> —	26070620010100 26070622010000	MOV	ES. ASMSP, IH
	<del>-03Fਨ</del>	25070622010000-	MOV	23: ASMSF + 2H, OH
	<del>USFE-</del>	79269706B800	MOV	ES, CS-RCONST+4H
_	0403-	<del>752683</del> 6 <del>E1866</del>		ES-ASSSF1 2
	0409-	7826D71E7800	- <del>                                      </del>	ESTASMSF; 1
	1)40F	78	WATT	ES-MSHSF; 1
	<del>0410</del> -	<del>272800</del>		<b>22</b> 000013
		<b>660000</b> 3		
-				T STATEMENT # 185
	0+15-	2E0E060800-	11/3/	ESVCS- ECONSTASH
	0415	26C7061C010100	HOV	ESTASSSF. TH
	0417	28C70&1E010000	MOV	ESTASSSF+2H, OH
	0425	2535060400	HOV	ES. USI RCONST+4H
_	0428 0431	9326D9069800	FLD	ESTASTISP
	<del>0497 -</del>	<del>902603361800</del>	FD1V	ESIFUR ; 7
	<del>0430</del> -		WAIT	E3: 4383P; 7
		<b>2</b> 200001		
		<del>2200001</del>		
-		<b>#\$0000</b>		
_		***************************************	~ ·	
	<del>043E</del>	<del>2232060000</del> ———	<del>-1101/</del> -	TO COTECUTOR TO TOO

r	<del>-0448</del>	268316E600	- TICIV	DX,ES:PKMCOP+2H
	<del>0440</del>	- 2400004000	- M8V	— <del>CX+E3+TRN3TN</del>
_	<del>~ 0452</del> <del>- 0457</del>	-26801E6E00	- <del>XCH3</del>	BX CS: RNSTN+2H
_	<del>- 0450</del> -	<del>260000000</del>	CALL	- BX + CX
_	045E-	<del>7403</del>	-d <del>Z</del>	3+51
_	0460	- E9AG00	— <del></del>	- C-000014
-	-0463	2E9E060400	-NOV	ES. SG+GGONST+4H
-	<del>0468</del> -	<del>782687067400 —</del>	- <del>FLD</del>	EGIAPHSP
_	<del></del>	<del>- 90260001000</del>	FMUL	ESHIUCKST+ 7
	<del>- 0474</del> -	<del>92802E0000</del>	-FGUBR-	APHEP 17
_	<del> 0479</del> -	-982EBF069290-	<del>-FLD</del>	C3+ QCONST+52H; 7
_	<del>047F</del>	<del></del>	-FCOMPP	
	<del>0433</del> -	-50	PUSH	AX 1
_	<del>- 0400</del> -	<del>- 98888EEAFF</del>	-FSTSW-	ESP3. &STACK+2H
_	-0499			AX 11
	OARA-	7700	-JA	# 4 F 3 1
_	<del>- 04</del> 0 <del>0</del> -	E92A00	-dMC	#+5H 
	-0496-	-2E8E06000	- MOV	E5, S6+@CONST+OH
_	***	<del>- 26070624010106</del> -	MÖV	ES: AFWSF: 1H
-	<del>- 0498</del> -	<del>-26070626010000</del> -	HOV	ES: APWSF: 2H, OH
_	- <del>0142</del> -	-2E0E060460	-MÖV	EST CST CONST + 4H
	<del>- 1340.7 -</del>	<del>?82689069400</del>	PLD	ES-APTIST
_	O-FAG	7826580£1000	FHUL	ES: NJCNST; /
_	<del>- 0483</del>	71:091E0000	FSTF	AIWSP 7
	<del>*********</del>	78	WAIT	
		@600001	<del>J:                                    </del>	
	-0489	2E8E060400		STATEMENT # 175
	<del>0462</del>	762667667800	110V	ESI, CSI ECONSTI 4H
_		<del>- 20260000000000000000000000000000000000</del>	FMUL	ESTASMER /
	<del></del>	- 95562E0400	-FOURK-	ASMS
	<del>040</del> F	782EDF069200	PLD -	CS: @CUNST+32H; 7
_	<del>- 045</del> 5-	9UDED9	FEOMPP	10
	<del>- 040</del> 0-	50	-PUSH	AX ; i
_	~ <del>0409</del> ~	PEUDBEEAPP	FSTSH-	CDF1.ESTACK+2H
	<del>048E</del>	-58	-PGP	AX 1 1 1
		<b>*</b> E	SAMP	
_	<del>- 0450-</del>	7703	<b>ゼキーー</b>	\$+3H
	- <del>04</del> E2-	E92400	-UMP	<b>€€</b> 000016
	<del>- 0465</del> -	2E3E060800	MOV	ES, CS: @CONST+8H
		26070628010100 23070628010000	MOV	28: ASWSF, 1H
		2E8E060400	MÖV	CSTASWSFY:2H, CH
_		732609069800	FLD -	ES, CS: &CONSTYAM
	<del>- 0503</del> -	7526D30E1C00	PL3	ESTACION 7
	<del>- 0503 -</del>	75571E0400	PSTP	ASWSP ; 7
_	CSOC.	20	WAIT	11000011 ) /
_		<u>@@</u> \$\$\$\$	<b></b>	*,
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		<del></del>	·	
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		2E6E64000	76V '	- STATEMENT # 200
	<del>05</del> +	- <del>2601066400</del>		
	<del>95</del> 1	-26881+6600	MOV	<del>- EG+CG+</del> &GGNST
	<del>95</del> 1	- <del>2601066400</del>	HQV -	EG+GG+QGONST AX+EG+PRMOOF
	<del>95</del> 1	-26881+6600	MOV	EGYGGY & GONGT AXY EGYPRIMOGRAZIA

	0523	268B1E7200	MOV	EX,ES:SEA+2H
6	0523	87D9	XCHG	SXTCX
ľ	্টেইন	<del>94000000000000000000000000000000000000</del>	CALL	70150
·	- OS2F	7403	JZ	\$+ <del>5H</del> .
	0531	E99400	JMP	<u>@@000017</u>
-	<del>-0534</del>	<del>&gt;BD&gt;060000</del>	FLD	APWSP ; 7
	<b>10039</b>	9ED9060400	FLU	ASWSP ; &
	-033E	700559	FSUBP	, 6
	~05 <del>41</del>	<del>9889<b>E</b>1                                    </del>	FASS	
	<b>*******</b>	<u> </u>	FLO	CS: ECONST+36HY 7
	- <del>354</del> 6	<del>960909</del>	FXCH	&T03+1H
==	- <del>3546 -</del>	980E09	FCOMPP-	
	<del>- 0550</del> -	50	PUSH	- <del>AX</del>
	<del>- 05</del> 51	PROBECTAFF	FSTSW-	TOP1. 65TACKT2H
	<del>- 055</del> 6	<del>-58</del>	POP	AX 11
	0557	<del>-&gt;e</del>	SAHE	
	0558	7703	JA	\$+3H
	-055A-	E96800	-dMF	- 18000018
	0550	7BD9060000	FLD	AFWSP ; 7
	- <del>0552</del> -	7807060400	-FLD	ASWSP ; 5
	0567	78000000000	-CALL	MCERDIM
	<del>- 0366</del> -	782EDF062E00	FLB	
	<del>0372</del>	PEDED9		CS: @CONST+2EH; 7
	- <del>05/5</del> -	- <del>8860</del>	PCOMPP	, 6
			MOV	HX, HX
	<del>- 0577 -</del>	50	FUSH	AX
	<del>- 0578 -</del>	YBODSEEAFF	PSTSW-	TDF3. ESTACKYZH
	<del>- 057£</del>	58	<del>POF</del>	-AX
7	-057E	250041	AND	AX, 4100K
	<del>- 0501 -</del>	<del>350040</del>	XOR	AX, 4000H
•	<del>- 0584-</del>	7403	JE	- ++5H
	<del>0536</del>	E92100	-JHC	<u>@@000019</u>
	<del>- 0587 -</del>	2E8E060300	MOV	ES, CS: @CONST+3H
	<del>- 050E</del>	<del>-26070624610100</del>	MOV	ESTAPWSF, 1H
	<del>- 0595-</del>	28C70828010000	MOV	ES:APWSF+2H-OH
	<del>- 0590 -</del>	<del>୭୪<b>୭</b>୭</del> ୦୪ <del>୦</del> 4୦୦	FLD	ASWSP ; 7
	-05A1	9B591E0000	FSTF	APWSP ; '/
	<del>-daco</del>	75	WAIT	
	<del>05A7</del> -	E91E00	JMP .	<b>44</b> 000020
		<del></del>	9:	
	-0544	_00000		STATEMENT # 206
	-5 m A m	2555040800	MOV	ES, CS; &CONST+8H
	<del></del>	<del>-26670620610106</del> -		ES* ASWSF + 1H
•	<del>~ 0596 -</del>	<del>-26070624010000-</del>	HOV	ES: ASWSF+2H; OH
	<del>- 6588</del> -	<del>-9889060000</del>	- <del>FL</del> D	APHSP 17
	<del>- 0502</del>	<del>90091504</del> 00	<del>FS*P</del>	AOWOP + 7
	<del>-0507 -</del>	<del>- yu</del>	WHIT	
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	·····	<b>48</b> 00001	<del>8:</del>	
		<b>€</b> €000001		
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		<del>E90000</del>	UMP	# STATEMENT # 212
		200000 <u>0000002</u>		##OOOOT!
				- + STATEMENT # 215
	<del>- 650.5</del>	-9LE5	-MOV:	-9P:8F
	- <del>1000b</del> -	56	+or -	
	050 <del>2</del>	- <del>[f</del>	<del>- PCF</del> -	<del>H</del>
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# FORTRAN-86 COMPILER GENERATED CODE 1F2: FREQIN. FOR

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#### STORAGE REQUIREMENTS FOR MODULE FREQIN:

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SERIES-III FORTRAN-84 COMPILER V1.0 OMPILER INVOKED SY: :F1:FURTS6.36 F2: TSTREP. FOR <del>SUBROUTINE TSTREP</del> INCLUDE (IF2: COMMON, FOR) 2.00 INTEGER\*4 RESULT-MASK(16)-NAME <del>INTEGER\*4 DIT, BIT1+DIT2+DIT3+BIT4+BIT5+BIT5+BIT7+BIT8+DIT9</del> <del>INTEGER\*4-Bl710,BI711,BI712,BI713,BI714,BI715,BI716,BI71/vBI718</del> <del>INTEGER\*4 BIT20,8IT21,BIT22,BIT23,BIT24,BIT25,BIT26,BIT27,BIT20</del> <del>INTEGER\*4 BITCO.BITC1.BITC2.BITC3.BITC4.BITC5.BITC6.BITC7.BITC7</del> <del>INTEGER\*4 BIT40.BIT41.BIT42.BIT43.BIT44.BIT45.BIT46.BIT46.</del>BI<del>T47.BIT46</del> INTEGERA DIT19 DIT29 BIT39 DIT49 <del>INTEGER\*4</del>-B<del>EGIN1, BEGIN2, BEGIN3, BEGIN4, BEGIN5, BEGIN4, BEGIN7, BEGINS</del> <del>INTECER\*4 BEGN9, BEGN10, BEGN11, BEGN12, BEGN19, BEGN14, BEGN15, BEGN16</del> 401 <del>INTEGER\*4 WIDTHI,WIDTH2,WIDTH3,WIDTH4,WIDTH5,WIDTH6,WIDTH7,WIDTH6</del> 17-1 <del>INFESER\*4-WINTS-WINTIO-WINTIT-WHINT12-WINTIS-WINT14-WINTIS</del>-WINTIS-<del>INTECER\*4 JCARD1, JCARD2, JCARD3, JCARD4, JCARD5, JCARD5, JCARD7, JCARDS</del> 13-4 111001 <del>INTEGER\*4 JCAR9, JCAR10, JCAR11+JCAR12+JCAR13+JCAR14+JCAR15+JCAR15</del> 15-2 <del>INTECER×4-861, 862, 883, 864, 885, 886, 887, **88**5, <del>88</del>7, 8810</del> 16=1 <del>INTEGER\*4-B611yB612yB619yB614yB615yB616yB617yB618yB617yB620</del> 17 - 1<del>INTEGER\*4-BG21, BG22, BG23, BG24, BG25, NORMAL, FOWER</del> INTEGER#4 DG26+DG27+DG20+DG29+DG30-15021 3000 INTEGER\*4-WIDTH, DEGIN, END, RMASK, I, K LOGICAL\*4 MCSF, TOSF, COSF, DKNPSF, POSCSF, INDPSF .. <u>24-6</u>4 LOGICAL\*4 HEOTSF, LOGESF, LBRPSF, LBSPSF, LPSPSF LOGICAL\*4-LOCPSF+HFDPSF+LEOPSF+LFHLSF+L9HLSF \_\_\_\_\_\_\_ LOGICAL\*4 TBIT-LGPPSF-FIRESF ----1 <u> LGGTCAL «4 - P1900F - P2905F - P3909F - P4909F - F5909F</u> 1 <del>LGG10AL#4-G1909F+92909F+99303F+943</del>09F+<del>95309F</del> <del>LOGICAL\*\*4 LVSVSF+LCSVSF+HVSVSF+HCSVSF</del> <del>. 26-1</del> <del>LOGICAL\*4-AESPSF,SEWPSF,HSPVSF,FEDPSF,PGCSS</del>F LOGICAL\*4 ROLUSE, LOTRNS, OLTRNS, INTIAL, SETINE <del>LO</del>CT<del>CAL \* 1 - APBRIC TO ASBOSE \* BIMILIOF \* BIMILIOF \* BIMICRY STRINSF</del> تصلنات <del>LOGICAL \* 4 - PAMHSE - PAMLSE - PEMHSE - PEMHSE - SEMHSE - SEMHSE</del> -0-1 LOGICAL\*4 SAMISE SAMESE TENCTOR PHOTOR SHOTOR 31-1 LOGICAL\*4-MOOPCC+HLTSSF+RENTRY-22-1 LOGICAL\*4 NOFAN, F46PM, F66PM, F120PM, FTIME, NOLTCH <del>:77∞!</del> <del>LOGICAL\*4 AENOFY APOOFT APMOFT ACOSET, ASMOFT AFWOFT ASWOF</del> <u>::4--1</u> INTEGER\*4 PATOW-PETVV-SATVO-SETVV ----1 ---<del>INTECER\* 4 - IAPBEN, IASBEN, IBHMSP, IBHMSR, IPAMPR, IPFMPR</del> INTESER\*4-ISEMPR, ISAMPR, IENCTM, IPHSTM, ISHBTM, ISTRNR ;<u>,,,,,</u> INTEGER\*4 TRNOIR-INTEGER\*4 DIGIN(S) - SUSMSG - NOUSMG ----<del>INTEGER\*4 LAND: TRNSTN: SEA. PARK; NTKAL, REVRSE: DRIVE: HIGH: COM</del> 4 INTEGER#4 TEST1+TEST2+TEST3+HYBPSS+HYNDPS+En MO4+ENDMSD 44.00 42-1 INTEOCH#4 CKPUMP, CKRAMP, CKPLST, CKRUST INTEGER \* CKPSLT, CKRSL1, CKRSL2 4-11-4 <del>inteoer=4 iaensp,iapmsp,iasmsp,iaposp,i</del>aesssp,iapwsp,iaowsp A district INTEGERAL BIRST, PRINCOP 45=1 <del>INTEGER\*4 TDELAY-TIMER-DMOOP-PBMOOP-BIGOUT(O)</del>-INTEGER#4 OCCFOF-POFWNP-DLGFUÑ 4-1-1 #NY<del>ESEK+4-6618+6R6L66+66TB+6R6PEN+PCFHBP+UL68FF+6L6HER</del> 10-1 INTEGER\*4-GUBBWN, DLGVV, DHGVV, HNBFBN, MDFBN, TRYBTF, SURISE integri<del>ka sarbi ya bidosapitbosapitbos</del> تست: 44.84 INTEGER<del>ING AUXI AUXI AUXI AUXI AUXI AUXI AUXI</del> WEEGERALASMA WAS ACCO PER NECES INTEGERNA FIVE GIVE <del>ACAL \* + - APIDGAN + AGIIC AN + BHHSP + BHHSR + BHRNK + BANTPR</del>

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55=1	REAL*4 FDR, WUCNST, INTCPT(-1:1)
-56-1 	REAL ** FFMTFR. SFMTFR. SAMTFR. ENCTEM. PHOTEM. SHOTEM
: <del>57 = 1</del>	REAL*4 DPMSP, DSMSP, DDHMSP, PNT10, AUX9, AUX10
58-1	REAL * 4 DHUSP, DHUSP, DSUSP
<del>59=1</del>	REAL*4 APPS, ASPS, AENSP, PMDIS, PMDIPP
<del>-60=1</del>	REAL#4 PHTRQ: BEMP: REPPT: PTREFF: REPST
61-1	REAL#4 APMSP, ASMSP, SMDIS, SMDIP
<del>성고=1</del>	REAL*4 SMTRQ, DSMP, STREFF, REFT
<del>-63=1</del>	REAL*4 DPFRT, PDIFF, DPFWJ, DSFRT, SUIFF, DPSWJ
64=1	REAL#4 FFDIS, FFDFF, AFSSF, ASSSF
<del>65-1</del>	REAL#4 FFTRQ, DPFF, REFFP, PPMEFF, REPSP
<del>66=1</del>	REAL*4 SPDIS, SPDFP, MAXMSP, TREF, DES
<del>(.7=1</del>	REAL*4 SPTRQ, DSPP, SPMEFF, REPP, ALPMSP, ALSMSP
- <del>63=1</del>	REAL ** ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TORQUE
-60-1 -69=1	REAL ** K1, K2, K3, K4, K5, K6, K7, K8, K7, K10
<del>70=1</del>	REAL 4 M1, M4, M5, M6, M7, M8, M7
71=1	REAL*4 M13,M14,M13,M18,M17,M18,M17,H20
72-1	REAL*4 M21, M22, M23, M24, M25, M26, M27, M28
<del>73-1</del>	REAL#4 M29, M30, M31, M32, M33, M34
74=1	REAL#4 DHMSP&(4), PAMPR(10), SAMPR(10), PFMPR(10), SFMPR(10)
<del>75-1</del>	INTEGER#4 M2,M3,M10,M11,M12
<del>76=1</del>	INTEGER#4 M35, M36, M37, M38, M39, M40
77-1	INTEGER*4 M41, M42, M43, M44, M45, M46, M47, M48, M49
<del>78-1</del>	COMMON /BITTNC/ RESULT, MASK, NAME
79-1	COMMON /DITUNC/ DITERTIEDITA, DITA, DITA, DITA, DITA, DITA, DITA, DITA, DITA, DITA
-5:0=1 · · ·	COMMON /BITFNC/ BITIO, BITII, BITI2, BITI3, BITI4, BITI5, BITIA, BITI7
<del>-81=1</del>	COMMON /BITPNC/ B1720, B1721, B1722, B1723, B1724, B1725, B1726, B1727
-82=1	
	COMMON /BITFNC/ BIT30, BIT31, BIT32, BIT33, BIT34, BIT33, BIT36, BIT37
33=1	COMMON /BITENC/ BIT40, BIT41, BIT42, BIT43, BIT44, BIT45, BIT45, BIT47
<del>24=1</del>	
-35=1	COMMON /BITTMC/ BEGIN1, EEGIN2, BEGIN3, BEGIN4, DEGINS, DEGIN6, DEGIN7
<del>८6=1</del>	COMMON /BITFNC/ BEGN7, BEGN10, DEGN11, BEGN12, BEGN13, BEGN14, BEGN15
<del>-37=1</del> -	<del></del>
- <del>23-1</del>	COMMON /BITFNC/ WIDT9, WIDT10, WIDT11, WIDT12, WIDT13, WIDT14, WIDT15
<del>-89=1</del>	COMMON /DITFNC/ DEGINS, BEGN16, WIDTHS, WIDT16, JCARDS, JCAR16
<del>-&gt;)=</del> 1	COMMON /BITFNC/ JCARD1; JCARD2; JCARD3; JCARD4; JCARD5; JCARD4; JCARD4; JCARD4;
91=1-	COMMON /SITENC/ JCAR9, JCAR10, JCAR11, JCAR12, JCAR13, JCAR14, JCAR15
92-1	COMMON /BITFINC/ DG1, DG2, DG3, DG4, DG3, DG2, DG7, DG3, DG9, DG10
99-1	COMMON /EITFNC/ D011, D012, D013, D014, D015, D016, D017, D018, D017, D620
->4-1	COMMON /BITFNC/ DG21, DG22, DG23, DG24, DG23, NORMAL, FOWER
- <del>25-1</del>	COMMON /BITTNC/ DG21, BG22, DG23, DG23, NGRMHE, FOWER  COMMON /BITTNC/ DG26, DG27, DG26, DG27, DG30
	COMMON /BITTHNC/ WIDTH, BEVIN, END, RMASK, I, K
<del>- 97-1</del>	COMMUN /ERROR/MSSF, TSSF, OSSF, DKNPSF, PGSCSF, INDESF
<del>-98=1</del>	COMMON /ERROR/ HEOTSF, LUCLSF, LUKFSF, LUSSFSF, LPCPOF
<del></del>	COMMON /ERROR/ LEOPSF, HEDPSF, LEOPSF, LPHLSF, LSHLSF
100=1	COMMON /ERROR/ LSFFSF, FIRESF
101=1	COMMON /ERROR/ P1SCSF, P2SCSF, P3SCSF, P4 TCSF, P3SCSF
102-1	COMMON /ERROR/ 91903F,92303F,53303F,54003F,53303F
103=1	COMMON /ERROR/ LVSVSF, LCSVSF, HVSVSF, HCSVSF
<del>1()4=1</del>	COMMON /ERROR/ ACBROF, SEWPSF, HBPVSF, FEBPSF, FOCSSF
105-1	- COMMON /ERROR/ ROLSSF, LSTRNS, SLTRNS, INTIAL, SETING
113600	COMMON /ERROR/ AFBOSF, ASSOSF, CHMHSF, CHMLSF, CMMRSF, DTRNSF
107=1	COMMON /ERRORY FAMILSE, PAMILSE, PAMILSE, PAMILSE, SEMILSE, SEMILSE
.↓( <del>) ]=</del>	COMMON /ERROR/ SAMMOF SAMMOF, ENCISE, PHOTOF, SHOTOF
<del>)</del> <del>=</del> 1	COMMON FERRORY MOOFICE, METSER, RENTRY
110=1	COMMON PERRORY NOPAN, FAGRM, FRUPH, F120PM, FT1ME, NULTCH
111-1	- DOMMON /ERROR/ MENSE, AFSSM, AFMSE, ASSSM, ASMSE, AFMSM, MENSM
112-1	COMPON /CINOUT/ IMPOCN, INSDON, IDHMSP, IDHMSN, IPAMPR, IMPRAR

-/ <sub>2</sub> (-)	SETT PERMITTING SAME (PMOOF ES TRASTA)
+;;;	DSFRT=DSWSF + 6. 40
	CALCULATE STARBOARD WATERJET MOTREP
<del>50</del>	FIREFF=CHESCOFFWG/Z49))***0.25
36 37	DPPWJ=DPFRT=PD1FP7393934.0 PTREFF=(ADS(DPPWJ/249))***0.23
55	1F((FAMHSF).OR.(FAMLSF).OR.(FFMHSF).OR.(FFMLSF)) FD1FF≈2000.0
	TOURPERDIFFEMINUS
54	IF ((DTRST.EQ.REVRSE). AND. (PMOOP.EQ.TRNSTN))
	POIFF=PFMTPR-PAMTPR
<del>52</del>	DPFRT-DPW9P*6.43
<del> c</del>	
<del></del>	CALCULATE PORT MATERUET MOTREP
<del></del>	
51	MINUS-1.0
50=1	COMMON /MOUT/ M41, M42, M43, M44, M45, M46, M47, M46, M47, M50
49=1	COMMON /MOUT/ M31, M32, M33, M34, M35, M36, M37, M38, M39; M40
-4/-: <del>-4년=1</del>	COMMON /MOUT/ M11, M12, M13, M13, M15, M15, M17, M18, M17, M20  COMMON /MOUT/ M21, M22, M28, M24, M23, M27, M20, M27, M20, M27, M30
45-1	COMMON /MOUT/ M1,M2,M3,M4,M3,M6,M7,M3,M9,M10
45=!	COMMON /CALC/ DHMSFU, PAMPR, SAMPR, PFMFR, SFMPR
44-1	COMMON /CALC/ K1, K2, K3, K4, K5, K6, K7, K8, K7, K10
45=1	COMMON /CALC/ ALPWSP, ALSWSP, MAXWSP, AUXPOW, TRNPOW, TORQUE
<del>12=</del> 1	COMMON /CALC/ SPTRG.DSPP.SPMEF.F.REPP.ALPMSP.ALSMSP
41-1	COMMON /CALC/ SPDIS, SPDPP, MAXMSP, TREF, DES
40-1	COMMON /CALC/ PFTRG, DFFF, REFFF, PPMEFF, REFSF
<del>37=1</del>	COMMON /CALC/ PPDIS-PPDFP-APSSP-APSSP
<del>33-1</del>	COMMON /CALC/ DPFRT, FDIFF, DFFWJ, DSFRT, SDIFF, DFSWJ
<del>37=1</del>	COMMON /CALC/ SMTRQ.DSMP.STREFF.REFT
36 <del>-1</del> -	COMMON /CALC/ APMSP, ASMSP, SMBIS, SMBPP
34-1 35-1	COMMON /CALC/ APPS, ASPS, AENSP, PMDIS, PMDPP COMMON /CALC/ FMTMG, DPMP, REPFT, PTREFF, REFST
34=1	COMMON /CALC/ BIWSP, DHWSR, DPWSP, DSWSP, INTERT
<del>32-1</del>	COMMON /CALC/ BPMSP, BSMSP, GBMMSP, FNT13, AUX9, AUX10
<del>31=1</del>	COMMON /CALC/ PENTER, SEMTER, SAMTER, ENCTEN, FROTEM, SHOTEM
<del>80=1</del>	COMMON /CALC/ FDR: HUCHST:
29-1	COMMON /CALC/ APBCAN, ASUCAN, BHMSP, DHMSR, BTRNR, PAMTER
<del>20-1</del>	- COMMON-/CINCUT/ PTVV.STVV
27-1	COMMON / CINCUT/ ROMS, RPMS, ROSS, RPSS, RES
<del>26-1</del>	COMMON /CINCUT/ AUX1, AUX2, AUX3, AUX4, AUX5, AUX6, AUX7, AUX6, IBES
25=1	COMMON /CINCUT/ PATVV.PFTVV.SATVV.SFTVV
24-1	COMMON /CINCUT/ CUBOWN BLOVY BHOVY MNBFON MBFON TRASTP SURISE
23-1	COMMON /CINGUT/ SECFOF, PEFWP, BLOPEN, PEFWBP, DLOOFF, SLOWER
<del>21=1</del> <del>22=1</del>	COMMON / CINCUT / COCCOE POCUME POR COCCOE
<del>20=1</del>	COMMON /CINCUT/ BTRST, PRMOOP, ERRBLY, BIBGS, PBTBGS, PTDGS
17-1	COMMON /CINDUT/ IACKSP, IACKSP, IASKSP, IACKSP, IACKSP, IACKSP
<del>18=1</del>	COMMON /CINGUT/ CKPSLT, CKRSL1, CKRSL2
17=1	COMMON /CINCUT/ CKPUMP, CKRAMP, CKPLST, CKRLST
16=1	COMMON /CINOUT/ TEST:, TEST2, TEST3, HYDPS3, HYNDPS, ENGNOW, ENGNOG
<del>15-1</del>	COMMON /CINCUT/ LAND, TRNSTN, SEA, FARK, NTRAL, REVRSE, DRIVE, HICH, LOW

## FORTRAN-86 COMPILER :F2:TSTREP.FOR

_	·
163	DPSWJ=DSFRT*SDIF7/395934.0
164	STREFF=(ADS(DPSWJ/249))**0.25
165	REPST=DPSWJ/STREPF
- C	
	REQUIRED FOWER FOR TRANSMISSIONS
166	REPT#REPP1*REPST
167 C	RETURN
163	END
·	
<u> </u>	
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	N-03

STORAGE REQUIREMENTS FOR	R MODULE TS	TREP:		,	
- CODE AREA STZE	00288H	<del>- 696E</del> -			
- CONSTANT AREA SIZE	<del>- 0001EH</del>	<del>30b</del>			
- VARIABLE AREA SIZE		100			
- MAXIMUM STACK SIZE	-00000011				
	- 0012CH				
/MOUT/	-0002611	<del>198b</del>		····	
	-0019CH		1		
/EITENS/					
- ACALO	- 00266H				
	<del>0920CH</del>	5 <del>2</del> 4Đ			
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O WARNINGS ISSUED.				· · · · · · · · · · · · · · · · · · ·	
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- O TOTAL WARNINGS ISSUED		·			
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		7.VT			

SERIES-III FORTRAN-86 COMPILER V1.0

1	SUBROUTINE UPSHET
<del></del>	INCLUDE (:F2:COMMON:FDR)
<del>-2=1</del>	INTEGER*4 RESULT, MASK (16), NAME
3=:	INTEGER## SIT.BIT1.BIT2.BIT3.BIT4.BIT5.BIT6.BIT7.BIT8.BIT9
4=1	INTEGER*4 BITTO, DITTI, BITT2, BITT3, DITT4, BITTS, DITT6, DITT7, DITT8
5-1	INTEGER*4 81720, 01721, 81722, 01723, 01724, 81723, 81726, 81727, 81723
c <del>-1</del>	INTEGER#4 BIT30, BIT31, BIT32, BIT33, BIT34, BIT35, BIT36, BIT37, BIT38
7=1	INTEGER*4 31740, 31741, 31742, 31743, 31744, 31745, 31746, 31747, 31746
<del>ठ=1</del> -	INTEGER#4 bit19, bit29, bit39, bit49
9-1	INTEGER*4 DEGINI, BEGINZ, BEGINS, BEGINA, DEGINS, BEGINS, BEGINY, BEGINS
0=1	INTEGER*4 BEGNY, BEGNIO, DEGNII, DEGNIZ, DEGNIZ, BEGNIA, NGGNIS, BEGNIG
1=1	INTEGER#4 WIDTH1, WIDTH2, WIDTH3, WIDTH4, WIDTH3, WIDTH6, WIDTH7, WIDTH8
2=1	INTEGER#4 WIET9, WIDTIO, WIDTII, WIDTIZ, WIDTI3, WIDTI4, WIDTI5
13=1	INTEGER*4 JCARD1, JCARD2, JCARD3, JCARD4, JCARD5, JCARD6, JCARD7, JCARD8
4=1	INTEGER#4 JCAR9, JCAR10, JCAR11, JCAR12, JCAR13, JCAR14, JCAR15, JCAR16
13=1	INTEGER*4 DG1,DG2,DG3,DG4,DG5,DG6,DG7,DG8,DG7,DG10
16=1	INTEGER#4 DG11, DG12, DG13, DG14, DG15, DG16, DG17, DG18, DG19, DG20
17-1	INTESER*4 DOZ1, DG22, DG23, DG24, DG25, NORMAL, POWER
18=1	INTEGER*4 DG26, DG27, DG28, DG29, DG30
17=1	INTEGERAR WIDTH, BEGIN, END, RMASK, I, K
20-1	Logical W4 M33F, T33F, US3F, DKNFSF, FGSCSF, INDFSF
<del>21=1</del>	LOGICAL*4 HEOTSF, LSCLSF, LSRPSF, LSSPSF, LPCPSF
22-1	LOGICALWA LSCPSP, HPEPSP, LEOPSP, LPHLSP, LSHLSP
23=1	LOGICAL*4 TDIT, LSPPSF, FIRESF
24=1	LCGICAL*4 PISCSF, P2SCSF, P3SCSF, P4SCSF, P5SCSF
25=1	LOGICAL*4 SISCSF, SZSCSF, SSSCSF, S4SCSF, SSSCSF
26-1	LUGICAL*4 LVSVSF, LCSVSF, HVSVSF, HCSVSF
27=1	LOGICAL*4 AEBPSF, SEWPSF, HBFVSF, FEBPSF, PGCSSF
<u> </u>	LÜGTCAL*4 RCLSSF, LSTRNS, SLYKNS, INTTAL, SFTINP
27-1	LOSICALWA AFBOSE, ASBOSE, DHMHSE, DHMLSE, DHMRSE, DTRNSE
50=1	LOGICAL*4 PAMHSF, PAMILSE, PEMHSE, PEMLSE, SEMILSE
31=1	LOGICAL## SAMMSF.SAMLSF.ENCTSF.PHOTSF.SHOTSF
32-1	LOGICAL*4 MODFCC, MLTSSF, RENTWY
33=1	LOGICAL*** NOFAN, FASPM, FEGPM, FIZGPM, FTIME, NOLTCH
34=1	LOGICAL*4 PENSE, APSSE, APRSE, ASSSE, ASMSE, APWSE, ASWSE
35=1	INTEGERNA PATVV, FATVV, SATVV, SATVV
36=1	INTEGER#4 IAPBON, IABBON, IDHMSP, IDHMSR, IFAMPR, FMFR
<del>37=1</del>	INTEGER 4 ISPMPR, ISAMPR, IENCTM, IPHOTM, ISHOTM, IDTANA
3:3=1	
37-1	INTEGERRA DIGINTS), SUSMAG, NEUSMG
‡ <del>∪=1</del>	INTEGER#4 LAND, TRNSTN, SEA, PARK, NTRAL, REVRSE, DRIVE, HIGH, LOW
41-1	INTEGER#4 TEST1. TEST2, TESTS. HYDESS. MYNDES, ENGNON, EMCMSG
<del>12=1</del>	INTEGER*4 CKPUMP, CKRAMP, CKPUST, CKRUST
<del>13=1</del>	INTEGER*4 CRESLI, CKRSLI, CKRSL2
‡4 <u>=1</u>	Integer*4 Iaensf, Iaphsp, Iashsp, Iapssp, Iasssf, Iaphsp
<b>45=1</b>	INTEGER#4 DIRST, PRMOOP
4 <del>4=1</del>	INTEGER*4 TUCLAY, TIMER, DMOOF, PDMOOF, DIGOUT(S)
17-1	INTEGERA SECROF, MORWING, DLOFON
+ <del>8−1</del>	INTEGER*4 OCTU-GROLSE-GOTO-GROPEN-POPULF-DUGGER, SCOWER
**/** <del>1</del>	INTEGER ** SUBBAN, BLCVV, BHCVV, MIDPON, MERON, TRKSTP, BIRTSE
<del>5⇔-{</del>	INTEGER*+ EKKELY, DIDGS, FBTBGS, FYBGS
<u> </u>	INTEGERMA PUXI, NUX2, FUX3, NUX4, NUX5, AUX5, AUX5, AUX5, AUX5
<del>):-1</del>	INI ESERTA KAMA, KIMATAKASA, KIMASAKES
<del>50-1</del>	THIECER* PIVV. STVV
<del>34=1</del>	KEALTS AFBEANS ASBEANS BEINSES BINDERS BYRNKS FAMTER

55=1	REAL*4 FDR, WJCNST, INTOPT(-1:1)
56-1-	REALX4 FENTER, SEMTER, SAMTER, ENCTEM, FHOTEM, SHOTEM
57-1	REAL*4 DPMSP, DSMSP, DDHMSP, PNT1S, AUX9, AUX10
<del>- 33-1</del>	REAL # 4 BHWSP , DHWSR , DHWSF , DSWSP
- <del>59-1</del> -	REAL*4 APPS, ASPS, AENSP, PHDIS, PHDIF
- <del>- (1)=1</del>	REAL # 4 PMTRQ DIMP REPPT PTREFF REPST
- <del>41-1</del>	REALXY APMSP, SMBIS, SMBFP
<del>62=1</del>	REAL #4 SMTRQ+ BSMP+ STREFF+ REPT
<del>-43-1</del>	REAL*4 DPFRT, PDIFP, DPPWJ, DSFRT, SDIFP, DPSWJ
<del></del>	REAL * 4 PPB IS - PPB PP - APSSP - ASSSP - ASS
	REAL *4 PPTRO DPPP REPPP PMEFF, REPSP
· <del>- 66=1</del>	REAL#4 SIDIS, SPBFF, MAXMSP, TREP, DES
<del>-67=1</del>	REAL#4 SPTRO, DSPF, SPMEFF, REPP, ALFMSP, ALSHSP
- <del>68-1</del>	REAL#4 ALPWSF, ALGWSP, MAXWSP, AUXPOW, TRNPOW, TORGUS
- <del>69=1</del>	REAL*4 K1+K2+K3+K4+K5+K6+K7+K8+K9+K10
<del>-70-1</del>	KEAL#4 M1+M4+M5+M6+M7+M8+M7
- <del>71-1</del>	REAL*4 M19, M14, M15, M16, M17, M18, M19, M20
- <del>72-1</del>	REAL * 4 M21 - M22 - M24 - M25 - M26 - M27 - M28 - M26 - M27 - M28 - M26 - M27 - M28 - M27 - M28
- <del>79-1</del>	REAL*4 M29, M30, M31, M32, M33, M34
74=1	REAL*4 5HMSPB(4), FAMPR(10), SAMPR(10), PFMPR(10), SFMFR(10)
<del>-75-1</del>	INTEGER+4 M2+M3+M10+M11+M12
- <del>-/6=1</del>	INTEGER*4 MS5, MS6, MS7, MS8, MS9, M40
<del>77=1</del>	INTEBER*4 M41, M42, M43, M44, M45, M46, M47, M48, M45
- <del>-70=1</del>	COMMON /BITFNC/ RESULT, MASK, NAME
- <del>79=1</del>	COMMON /DITPNC/ DIT, BIT1, BIT2, BIT3, BIT4, DIT5, BIT6, BIT7, DITS, BIT9
=0=1	
- <del>- 131 = 1</del>	COMMON /BITFNC/ BIT20, BIT21, BIT22, BIT23, BIT24, BIT25, BIT26, BIT27
<del>-52-1</del>	COMMON /BITFNC/ BITSO,BITSI,BITS2,BITS3,BITS4,BITSS,DITS6,BITS/
<del></del>	- COMMON /DITFNC/ DIT40, BIT41, DIT42, DIT43, DIT44, DIT45, DIT45, DIT45
- <del>- 34=1</del>	COMMON /BITFNC/ BIT19.SIT29.SIT39.SIT49.SIT18.SIT28.SIT38.SIT48
- <del>-25=1</del>	COMMON /EITFNC/ LEGIN1, &COIN2, LEGIN3, LEGIN4, CECINS, CECINA, CECINA
- <del>- 26-1</del>	COMMON /BITENC/ DEGNY, BEGN10, BEGN11, BEGN12, BEGN13, BEGN14, BEGN13
- <del>137-1</del>	COMMON /BITENO/ WIDTH1, WIBTH2, WIDTHS, WIDTH4, WIDTH5, WIDTH5, WIDTH7
- <del>- 33-1</del>	COMMON /BITFNC/ WIDTY, WIDT10, WIDT11, WIDT12, WIDT13, WIDT14, WIDT13
<del>- +39=1</del>	- COMMON /BITFNC/ DEGINS, DEGNIA, WIDTHS, WIDTIA, JOARDS, JOARIA
- <del> </del>	COMMON /BITENC/ JCARD1, JCARD2, JCARD3, JCARD4, JCARD5, JCARD6, JCARD7
- <del> </del>	GOMMON /BITFNO/ JCAR9, JCAR10, JCAR11, JCAR12, JCAR13, JCAR13
	COMMON /BITFNC/ DO1, DO2, DO3, DG4, DG5, DG6, DG7, DG3, DG7, DG10
- <del>- 99-1</del>	
- <del>-&gt;</del> 4=1	COMMON /BITFNC/ DOZI, DOZZ, DGZ3, DGZ4, DGZ5, NORMAL, FOWER
	COMMON /BITFNC/ DG26, DG27, DG28, DG29, DG30
- , <del>96-1</del>	COMMON /BITFNC/ WIDTH, SEGIN, END, RMASK, I, K
	COMMON /ERROR/MESE, TSSF, GSSF, BKMPSF, PGSGSF, INDESF
- 78-1	COMMON /ERROR/ HEOTSF, LBCLSF, LBRPSF, LBSPSF, LPCPSF
	COMMON /ERROR/ LIGHTSF, HEDPSF, LEGFSF, LPHLSF, LSFILSF
- r <del>oo=1</del>	COMMON /ERROR/ LSPPSF; F1RESF
- t <del>01=1</del>	COMMON /ERROR/ PISCSF, PISCSF, PISCSF, PISCSF, PISCSF, PISCSF
- rož=i	COMMON /ERROR/ SISCSF, SZSCSF, S3SCSF, S4SCSF, G8SCSF
- 103=1	COMMON /ERROR/ LVSVSF, LCSVSF, NVSVSF, HCSVSF
- 101=1	COMMON /ERRORY ALBROST SEWEST THEOVER FEBRUST FOCUSER
- 105-1	COMMON /ERROR/ ROLESF, LETRNS, SLTRNS, INTIAL, SETINE
[- <del>()&amp;=-</del> [	COMMON /ERROR/ APACSF ASDESF ABHMHSF OHMLSF OHMRSF OF TRASF
- <del>[-]</del>	COMMON /ERROR/ PAMHSE, PAMLSE, PEMHSE, PEMHSE, SEMHS SETTLS
- 6 jum 1	COMMON /ERRORY SAMUST SAMUST ENCIST FUNCTOR SHOTS
( <del>) ) = 1</del>	COMMON / PROCE MODECO METSOF, RENTRY
	where the street is a magnetic and the street of the first that the street of the stre
11111	
11-1	- USMMON /ERRORY NOPANSELAPIEN, PEOPM, PEOPM, PTZOPM, PTIMELNICLTOLI - COMMIN /FRED. / AENSELAPIEN, APMSELAPIEN, ASSISTANTER, ASSISTANTER, ASSISTANTER, ASSISTANTER, ASSISTANTER,
11-1-	- COMMON JERRORY NORMANTACEMATERIAL PROCESSIONAL TOTALES AND TOTAL

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113=1 14=1	COMMON /CINOUT/ ISFMPR, ISAMPR, IENCTM, IPHOTM, ISHOTM, IDTRNR  COMMON /CINOUT/ TRNDIR, DIGIN, DIGOUT, SUSMSG, NSUSMG
15=1	COMMON /CINOUT/ LAND, TANSIN, SEA, PARK, NIRAL, REVESE, DRIVE, HIGH, LOW
	COMMON /CINODI/ TESTI, TESTI, TESTI, TESTI, TESTIS, EYBPSS, HYNSPS, ENGNON, ENGNOS
110=1	COMMON /CINOUT/ CRPUMP, CKRAMP, CKPLST, CKRLST
113=1	COMMON /CINOUT/ CKPSLT, CKRSLI, CKRSLZ
117=1	COMMON /CINOUT/ TAENSP, TAPMSP, TASMSP, TAPSSP, TASSSP, TAPMSP, TASMSP
120=1	COMMON /CINOUT/ DTRST, PRMOUP, ERRUEY, DTDGS, PBTDGS, PTDGS
-121=1	COMMON /CINOUT/ TDELAY, TIMER, DMOOP, FDMOOP
122=1	COMMON /CINOUT/ SECPOP, PCFWMP, BLGPON
- <del>123=1</del>	COMMON /CINOUT/ OCTD, ORCLSE, GOTD, GROPEN, FORWER, DLGGFF, SLOWER
124=1	COMMON /CINOUT/ SUDOWN, DECVV, DHCVV, MNSPON, MSFON, TRKSTP, SURISE
-125=1	COMMON /CINOUT/ PATVV.FFTVV.SATVV.SFTVV
126-1	COMMON /CINOUT/ AUX1, AUX2, AUX3, AUX4, AUX5, AUX5, AUX7, AUX3, IDES
127-1	COMMON /CINOUT/ RSMS, RPMS, RSSS, RPSS, RES
- <del>128=1</del>	COMMON /CINOUT/ PTVV,STVV
129=1	COMMON /CALC/ APECAN, ASECAN, DHMSP, DHMSR, DTRNR, PAMTPR
<del>-130=1</del>	COMMON / CALC/ FOR WICHST
131=1	COMMON /CALC/ PEMTER, SEMTER, SAMTER, ENCTEM, PHOTEM, SHOTEM
132=1	COMMON /CALC/ DPMSP; DSMSP; ODHMSP; PNTIG; AUX9; AUX10
133-1	COMMON /CALC/ DHWSP, DHWSP, DRWSP, DSWSP, INTCPT
134=1	COMMON /CALC/ APPS, ASPS, AENSP, PMDIS, PMDFP
135-1	COMMON /CALC/ FMTRQ, DEMP, REFFT, FTREFF, REFST
136-1	COMMON /CALC/ APMSP, ASMSP, SMDIS, SMDFP
137-1	COMMON /CALC/ SMTRQ, DSMF, STREFF, REFT
133-1	COMMON /CALC/ DFFRT, FDIFF, DFFWJ, DSFRT, SDIFF, DFSWJ
139=1	COMMON /CALC/ PPDIS, PPDFP, APSSP, ASSSP
<del>40-1</del>	COMMON /CALC/ FFTRQ, DPPP, REPPP, PPMZFF, REPSP
41=1	COMMON /CALC/ SPDIS, SPDIP, MAXMSP, TREP, DES
<del>-{4}}= </del>	COMMON /CALC/ SPTRQ, DSPP, SPMEFF, REPP, ALFMS7, ALSMSP
143=1	COMMON /CALC/ ALPWSP-ALSWSP-MAXWSP-AUXFOW-TRNPOW-TORQUE
144-1	COMMON /CALC/ K1,K2,K3,K4,K5,K6,K7,K8,K9,K10
145=1	COMMON /CALC/ DHMSPD, FAMPR, SAMPR, FFMPR, SPMPR
146=1	COMMON /MOUT/ M1.M2.M3.M4.M5.M6.M7.M8.M9.M10
147-1	COMMON /MOUT/ M11, M12, M13, M14, M15, M16, M17, M18, M19, M20
<del>- 148=1</del>	COMMON /MOUT/ M21, M22, M23, M24, M25, M26, M27, M28, M27, M30
149-1	COMMON /MOUT/ M31, M32, M33, M34, M35, M36, M37, M38, M39, M40
<del>- 150=1</del>	COMMON /MOUTY M41, M42, M43, M44, M45, M46, M47, M48, M49, M50
<del></del>	
<del></del>	TEST TO SEE IF THE SHIFT IS ALLOWABLE
<del></del>	
<del>-151</del>	IF(.NOT.FTIME) THEN
<del>152</del>	FOR-4, 43
<del>153 -</del>	DEMOR APMOR
<del>- 154</del>	DSHSP-ASMSP
155	CALL MOTRE
156	DPMSF=AP3SF*FFDR
157	DSMSP=ASMSP*PFDR
	MOTREP DAVE US THE PRESENT MOTOR POWER, NOW CALC REQUIRED TOROUT
	HOLLEL ONE OF THE LUCION HOLDING LONDY MAN ONCO LEGISLAND LONGON
<del>-158</del>	
-159	F3MD=A3P3×12+39/A3M3F
50	
.61	IF (F3MD.67.11.36) F3MD=11.38
162	PHOPP-FHUIS*PHOPP*2.34/7(PHD
-145	SMDFP-SMDIS#SMDFP#2.34/FSMD
164	- TF((FMDFF.GT.5000).OR.(SMDFF.GT.5000)) THEN
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## FORTRAN-86 COMPILER : F2: UPSHFT. FOR

165 SFTINPFALSE. 166 RETURN C DISENSAGE CLUTCHES C DISENSAGE CLUTCHES 160 FITHE-TRUE. 150 SECW-0 170 SHOW-0 171 SNGIT C CHECK-TO-SEE-IF THE CLUTCHES ARE-OVNOHED 172 FBR-4-49 173 ALPMSP-APSSPAFBR 174 MENT-ASSSPAFBR 175 IF (FALSE-SPAFBR)-LT, 400), AND. (ADS: ALEMSP-ASMSP).LT, 400)) THEN 170 STTINPFALSE. 170 STTINPFALSE. 170 RETURN 180 NCLTCHFALSE. 180 RETURN 181 ENB	- '	
C DISENSAGE CLUTCHES  C DISENSAGE CLUTCHES  160 FITHE-TRUE. 157 SLOW-0 190 SHOW-0 171 SNOTF  C CHECK TO SEE IF THE CLUTCHES ARE SYNOHED  C THEN-4-0 172 FBR-4-40 173 ALPHOR-APSPATDR 174 ALCHOR-ASSISTED APPROPRIATE 175 IF (ARISTLAMPS APPROPR).LT, 400), AND, (AUS(ALSMSP ASTISP).LT, 400)) THEN 176 SHOW-OSCOS 177 FLOW-0 177 PROSONERSOS 179 NUTTON, PALSE. 179 PROSONERSOS 190 NUTTON, PALSE. 191 FFINE-FALSE. 192 ENDIF	1.65	SETINE FALSE
## CONTROL OF THE CON		
C DISENSAGE CLUTCHES  C PTIME TRUE  169 SLOW-0  170 BHCW-0  171 ENDIT  C CHECK TO SEE IF THE OLUTCHES ARE SYNCHED  172 FDR-8, 49  174 ALSMSP-APSSP-FDR  175 IF (ADSTALFMSP APHSP).LT, 4001, AND. (ADS(ALSMSP-ASMSP).LT, 4001) THEN  176 BHCW-05505  177 DECW-0  170 SFIINT-FALSE.  170 PTIME FALSE.  181 RETURN  181 ENDIT	4 .00	NETURN
C DISENSAGE CLUTCHES  (6) FITHE TRUE. 169 BLOUVE 170 DHOWE 171 ENDIT  C CHECK TO SEE IF THE OLUTCHES ARE SYNCHED  173 ALPMOP ASSOSPTOR 174 HIS MOST ALPMOP APRISP ) LT. 400 ) AND (AUS(ALSMSP - ASMSP) LT. 400) THEN 175 IF (AUSTAL PROP - APRISP) LT. 400 ) AND (AUS(ALSMSP - ASMSP) LT. 400) THEN 170 SET IN PROPERTIES. 170 PTENSO PUTDOS 180 NOLTCH FALSE. 191 CHEST C CHEST  C CHEST  C CHEST  C CHEST  C CHEST  C CHEST  C CHEST  C C C C C C C C C C C C C C C C C C C	A	ENU II
160		
160	<del></del>	DISENBAGE CLUTCHES
143		
143	440	
170 DICK TO SEE IF THE CLUTCHES ARE SYNSHED  C CHECK TO SEE IF THE CLUTCHES ARE SYNSHED  C CHECK TO SEE IF THE CLUTCHES ARE SYNSHED  C CHECK TO SEE IF THE CLUTCHES ARE SYNSHED  C CHECK TO SEE IF THE CLUTCHES ARE SYNSHED  179 ALMOST AREASSY **IBR  174 ALCHOST AREASSY **IBR  175 IF (CRESSIS) LET, 4001, AND. (ADS(ALSMSP ASMSP), LT, 4007) THEN  176 DICKY-SESSIS  177 DECW-S  179 PROS-PITTOSS  180 NCLTCH-FALSE.  190 CENBIF  C CHECK TO SEE IF THE CLUTCHES ARE SYNSHED  181 FITTOS AREASSY **IBR  184 END  (184 END		
## CHECK TO SEE IF THE CLUTCHES ARE SYNSHED    C		
## CHECK TO SEE IF THE CLUTCHES ARE SYNSHED    C		DHEAR -
C CHECK TO SEE IF THE CLUTCHES ARE SYNCHED  C FRR-4.40  173 ALCHASP-APSSSPATUR  174 HLSHSP-ARSSSPATUR  175 IF (ABSTALPAND-ANNSP).LT.400).AND.(ADS(ALSHSP-ASHSP).LT.400)) THEN  176 BIGCV-0-5  177 DLCCV-0-9  177 SFTINPFALSE.  179 PTDSS-PUTBGS  180 NC.TCHFALSE.  192 CHBIF  183 RETURN  184 END		
C FBR=4.40 173	1/1	SIVE
C FBR=4.40 173		
C FBR=4.40 173		SHEEK TO SEE IF THE CLUTCHES ARE SYNCHED
173 ALPMSP-AGSPAFDR 174 ALDMSP-AGSPAFDR 175 IF((ADSTALPMSP-AFMSP).LT.400).AND.(ADSTALSMSP-ASMSP).LT.400)) THEN 176 DICKY-GSSS 177 DLCKY-GSSS 179 FTBOS-PUTBOS 190 NCLTCH-FALSE. 192 ENDIF 2 RETURN 194 END		
173 ALPMSP-AGSPAFDR 174 ALDMSP-AGSPAFDR 175 IF((ADSTALPMSP-AFMSP).LT.400).AND.(ADSTALSMSP-ASMSP).LT.400)) THEN 176 DICKY-GSSS 177 DLCKY-GSSS 179 FTBOS-PUTBOS 190 NCLTCH-FALSE. 192 ENDIF 2 RETURN 194 END		
174 ALDMSP-AGGSPFUR 175 IF((ADSALPMSP-AFMSP).LT.400).AND.(ADS(ALSMSP-ASMSP).LT.400)) THEN 176 DICKY-65595 177 DLSW-0 177 STINN		
174 ALDMSP-AGGSPFUR 175 IF((ADSALPMSP-AFMSP).LT.400).AND.(ADS(ALSMSP-ASMSP).LT.400)) THEN 176 DICKY-65595 177 DLSW-0 177 STINN	<del>- 173</del>	ALPHSP=A2SSP*FBR
175		•
176 DECW=0 177 DECW=0 179 SFTINP=_FALSE. 179 PTP0S=PUTDOS 190 NCLTONFALSE. 101 FTIMEFALSE. 102 ENDIT 8 RETURN 184 END		HESTIST PROSSILATION
176 DECW=0 177 DECW=0 179 SFTINP=_FALSE. 179 PTP0S=PUTDOS 190 NCLTONFALSE. 101 FTIMEFALSE. 102 ENDIT 8 RETURN 184 END		THEN IT ( CAUSTAL PMSP - APMSP ) . LT. 400) . AND. (AUSTAL SMSP - ASMSP ) . LT. 400) ) THEN
177 BLOW-0 179 STINP-, FALSE. 179 PTPSS-PUTDSS 100 NCLTCH-, FALSE. 102 ENBIF C RETURN 184 ENB	1/4	BHCVV=65535
170 SFTINP=-FALSE. 179 PTB0S=PUTB0S 190 NCLFORM: FALSE. 191 FTINE=-FALSE. 192 ENBIF C RETURN 134 ENB		
172 PT903 PUTICS 180 NCLTCHe.FALSE. 181 FFIMEFALSE. 182 ENDIF 183 RETURN 184 END		
177		SFTINP=.FALSE.
190 NGLTCHM-, FALSE.  191 FTIME=, FALSE.  192 ENDIT  183 RETURN  194 END  (	<del>179</del>	PTDCS=PBTDSS
181 FTIME=:FALSE.  182 ENBIF  183 RETURN  184 ENB  (		
162 ENBIF  0 RETURN 184 ENB  (		
P. RETURN 184 ENB (		
P. RETURN 184 ENB (	<del>182</del>	- ENDIF
184 ENB		
184 ENB	1-	
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STORAGE REQUIREMENTS F	OR MODULE UP	SHFT:			
CODE AREA SIZE	002CFH	7170 .			
CONSTANT PREA SIZE	00022H				
VARIABLE AREA SIZE		340 - 160			
MAXIMUM STACK SIZE					
/ERKOR/		180			
	0012CH	3000			
/MOUT/	000C6H	1980			-
/CINOUT/	0019CH	412D			
/BITFNC/	00263H	616D			
/CALC/	0020CH	5240			
O ERRORS DETECTED.		<del></del>	<del></del>	<del> </del>	
O WARNINGS ISSUED.					
ENTRY POINT IS 24H		·			
PLOATING-POINT OPERATIO	ONS WERE GEN	ERATED.	<del></del>	· <del></del>	
COMPILATION OF UPSHET	COMPLETE.				
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Appendix B
Individual Circuit Diagrams

#### Input/Output Pin Sheets for SC-1 Microcomputer for ATR Vehicle

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```

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        (Clamp (+24) (Page B-74)
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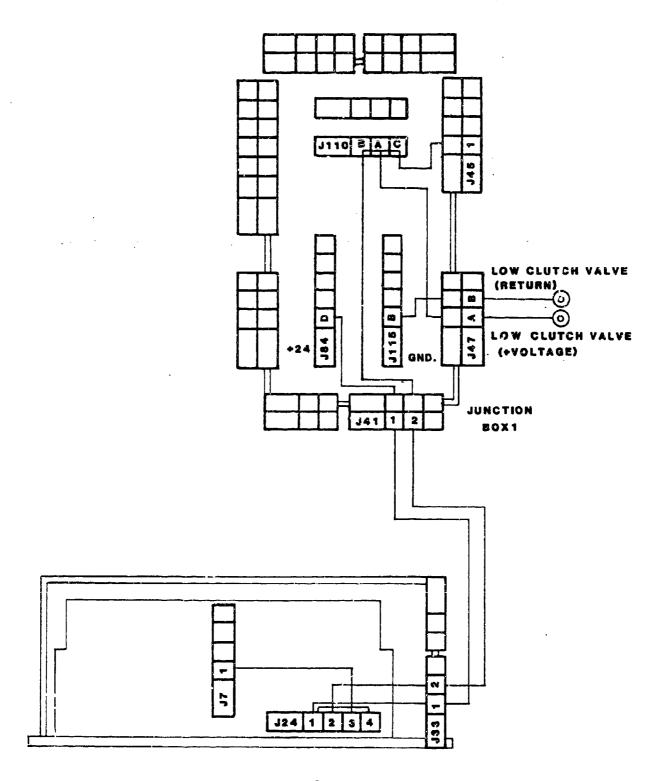
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  P10
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  P8
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P27

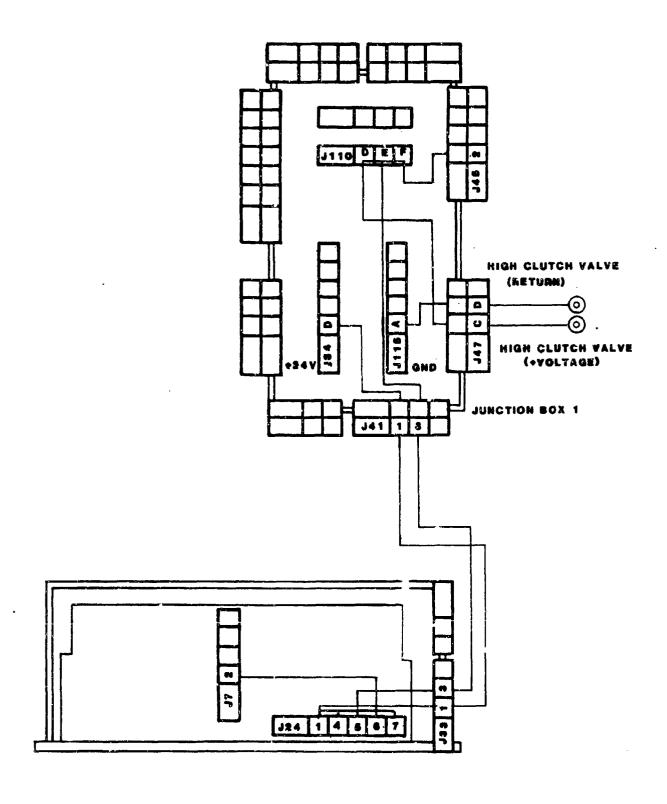
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P3
 P2
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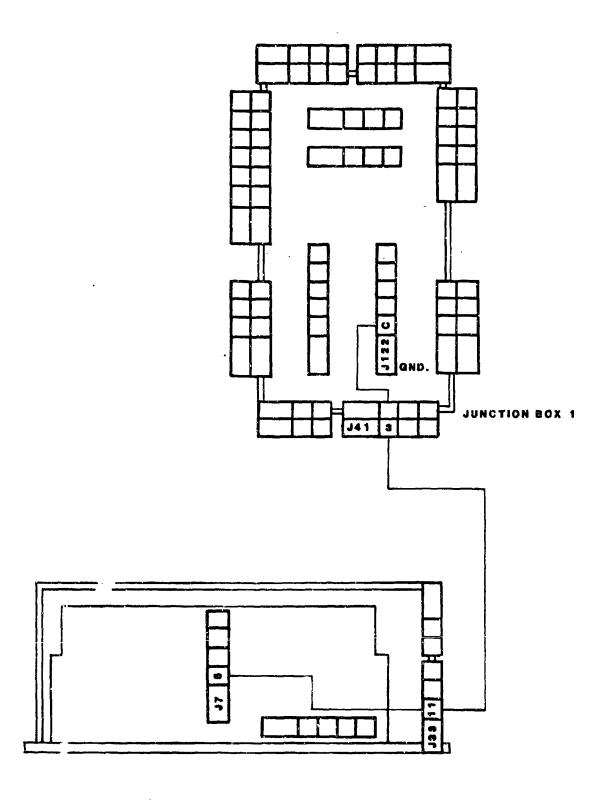
- J62 Terra Computer Warning Signal Output
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  - E TX to MODEM (Page B-129)
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### J7-P1 LOW CLUTCH VALVE VOLTAGE

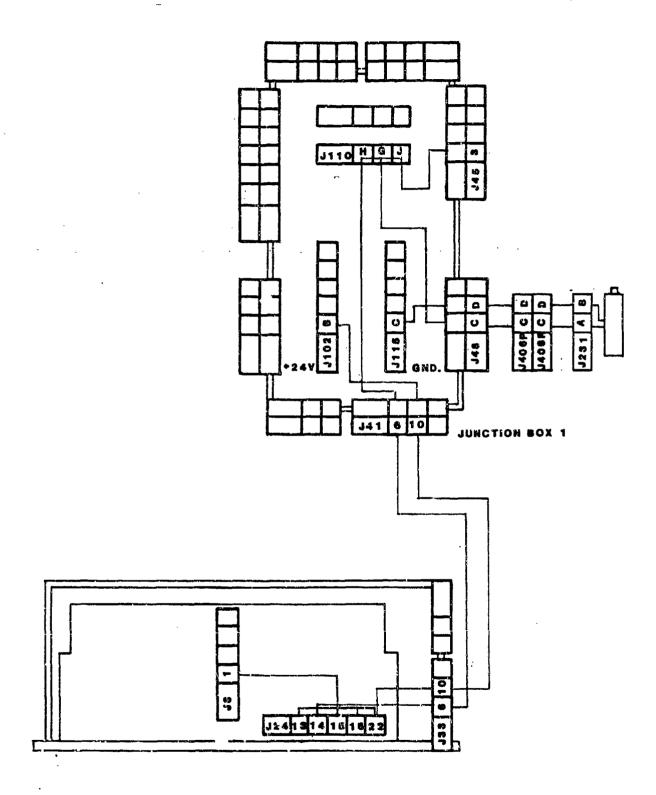


### J7-P2 HIGH CLUTCH VALVE VOLTAGE

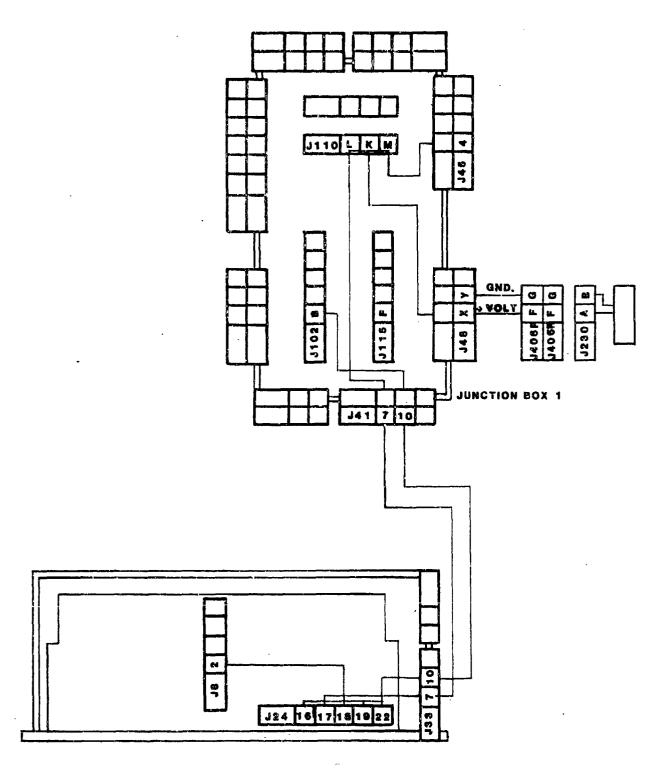




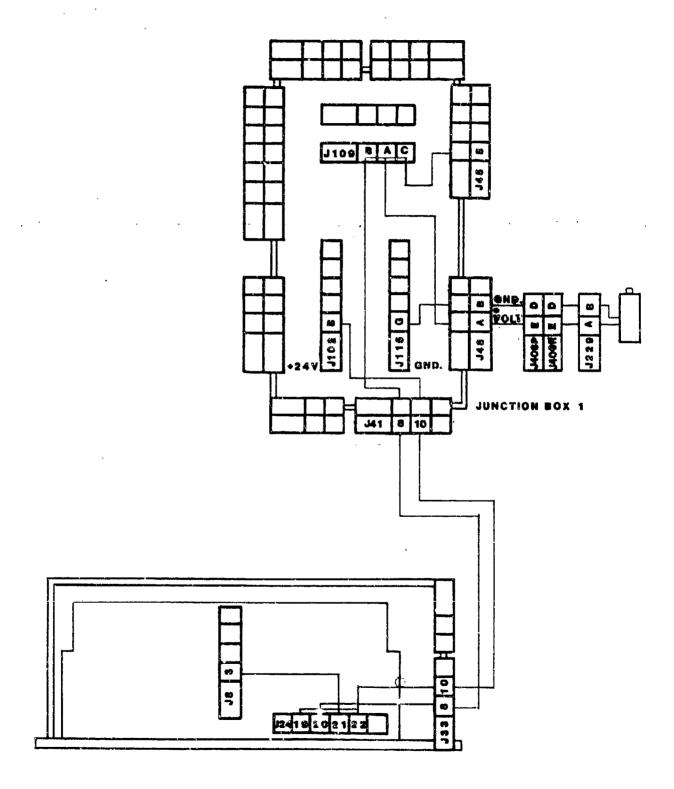
## J8-P1 PORT FORWARD TRANSMISSION VALVE VOLTAGE



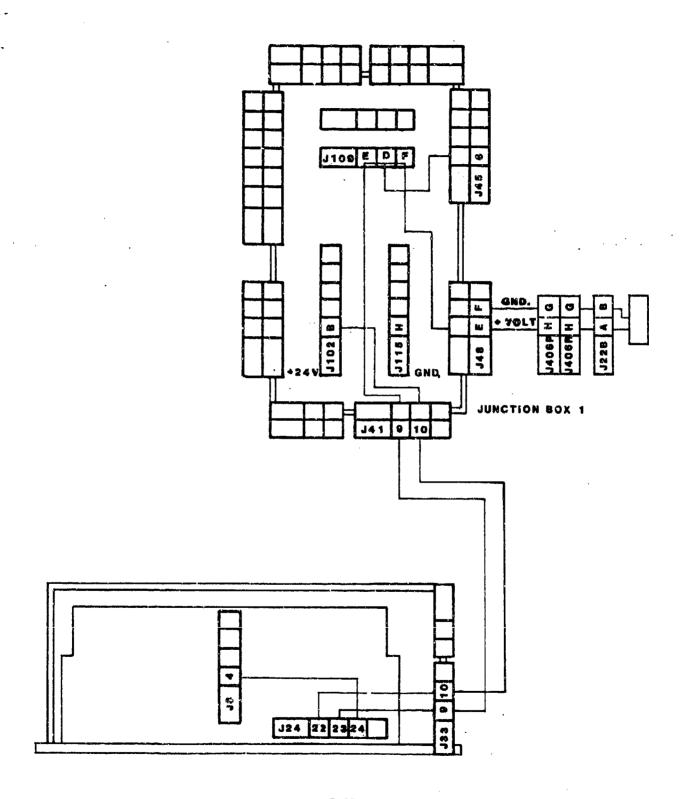
### J8-P2 STARBOARD FORWARD TRANSMISSION VALVE VOLTAGE

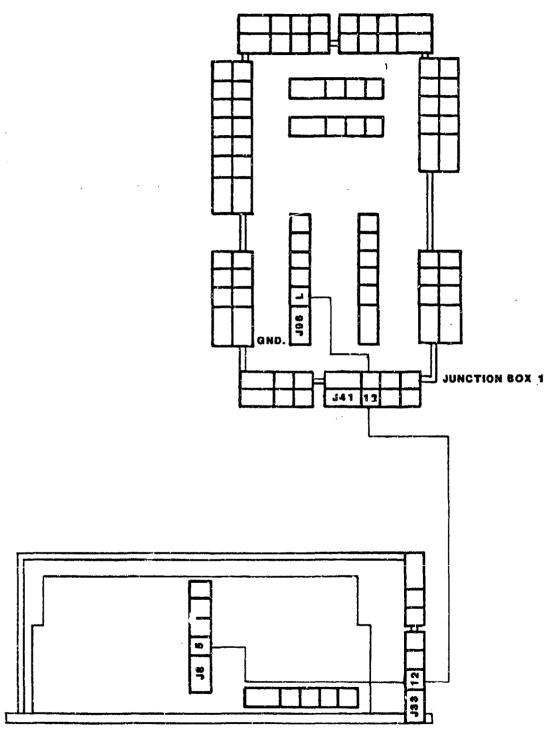


### J8-P3 PORT AFT TRANSMISSION VALVE VOLTAGE

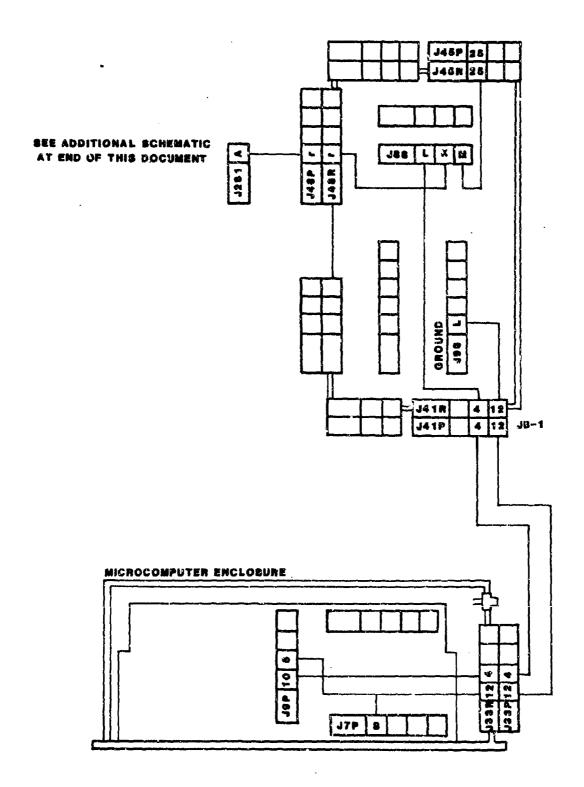


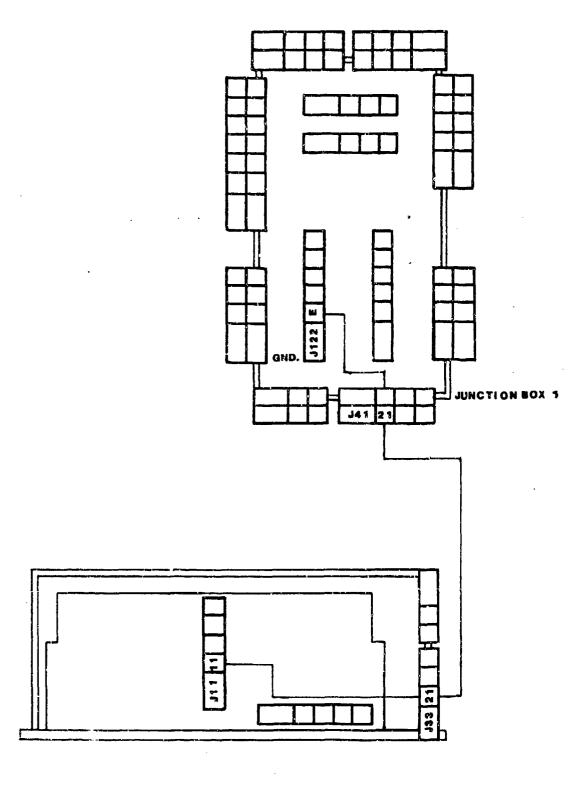
### J8-P4 STARBOARD AFT TRANSMISSION VALVE VOLTAGE



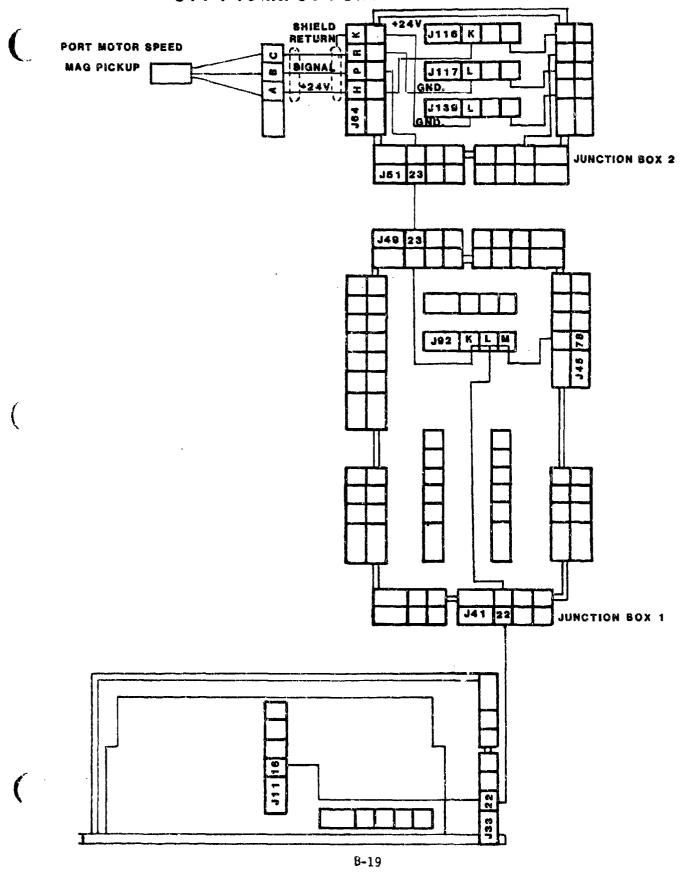


### J9P-P10 DES DESIRED ENGINE SPEED

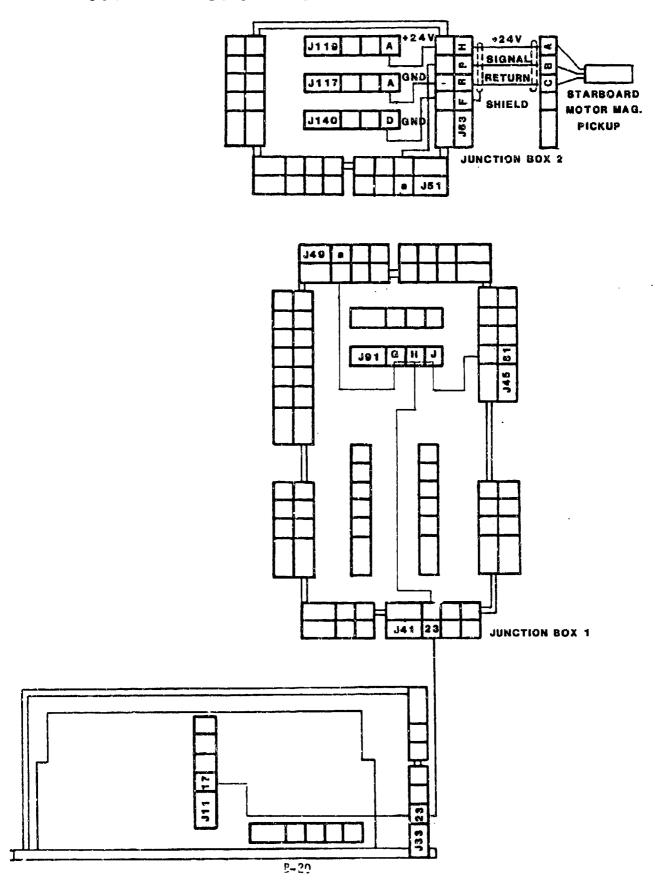




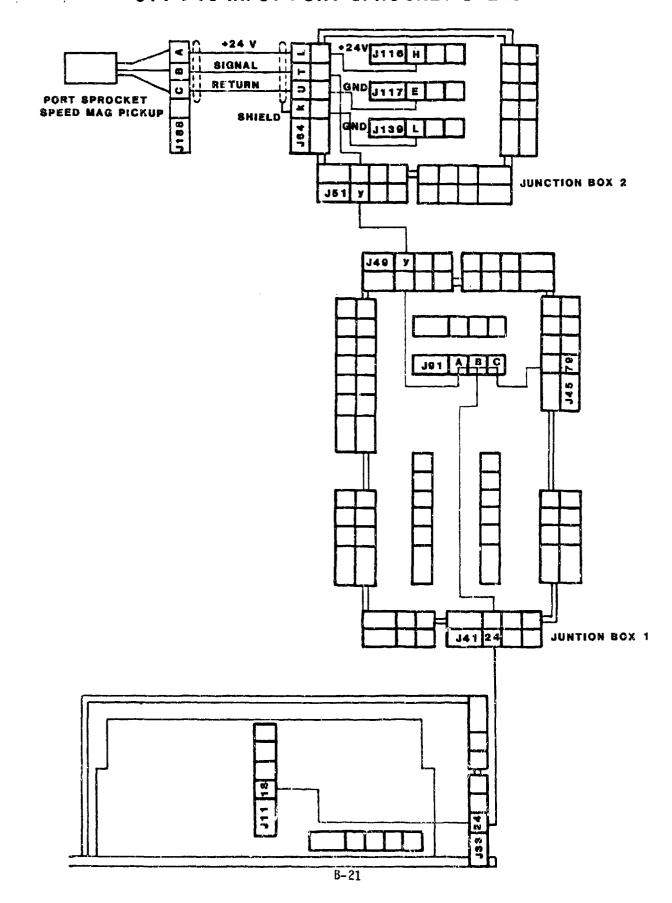
### J11-P16 INPUT PORT MOTOR SPEED



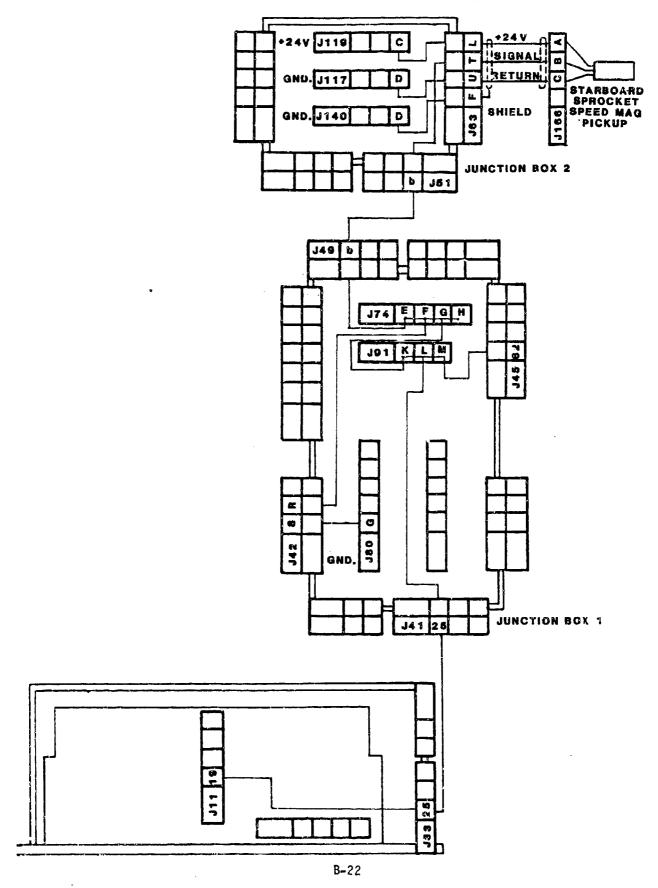
### J11-P17 INPUT STARBOARD MOTOR SPEED



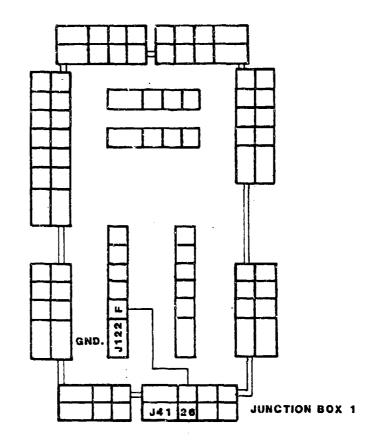
### J11-P18 INPUT PORT SPROCKET SPEED

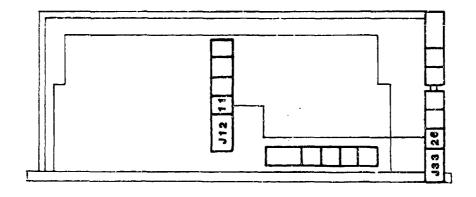


### J11-P19 INPUT STARBOARD SPROCKET SPEED

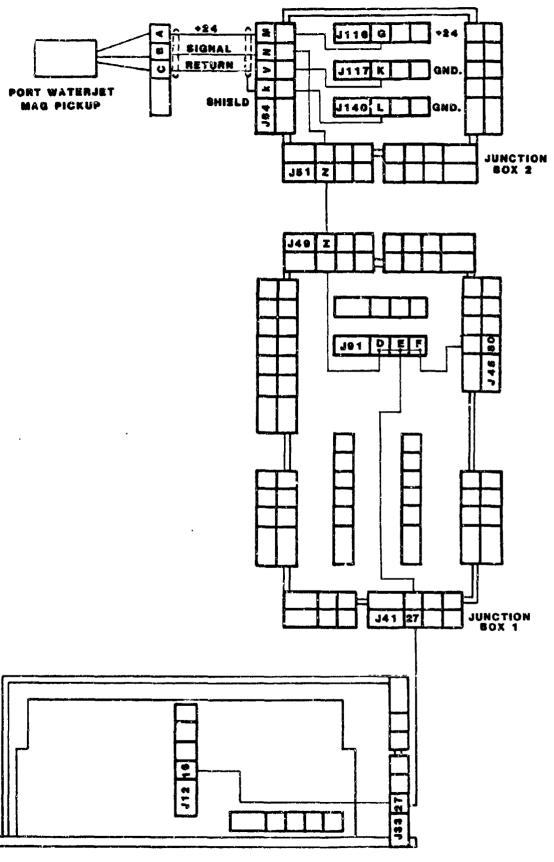


## J12-P11 GROUND

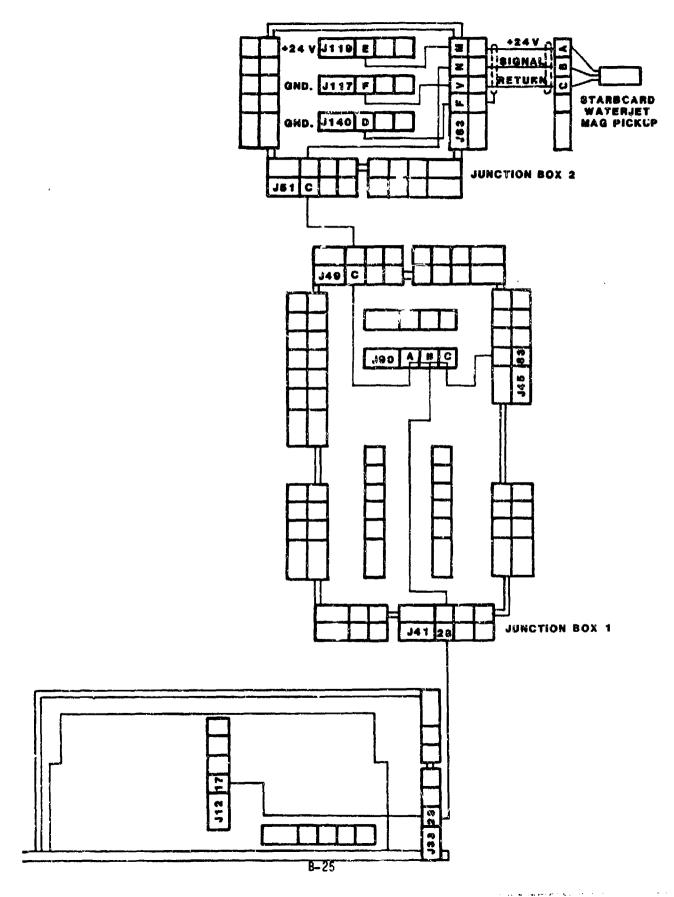




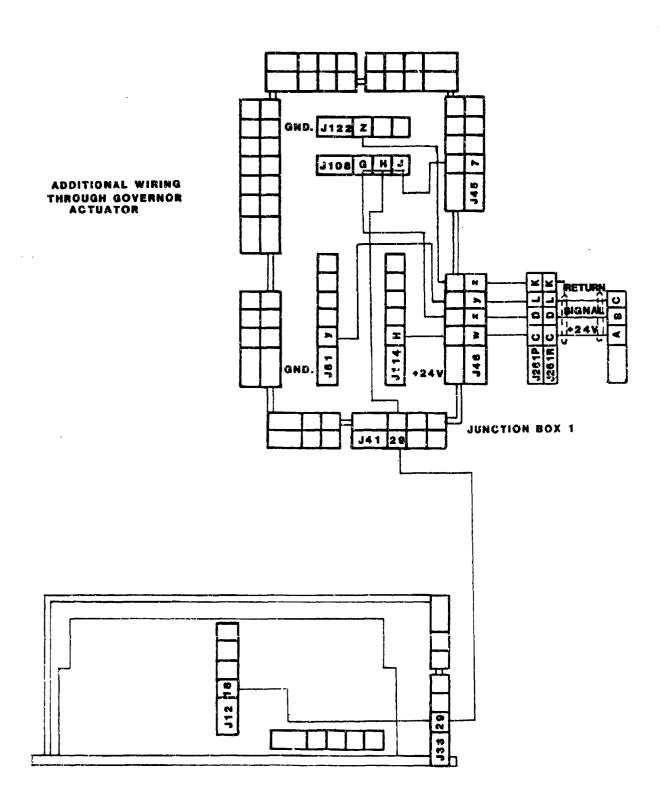
# J12-P16 INPUT PORT WATERJET SPEED



#### J12-P17 INPUT STARBOARD WATERJET SPEED

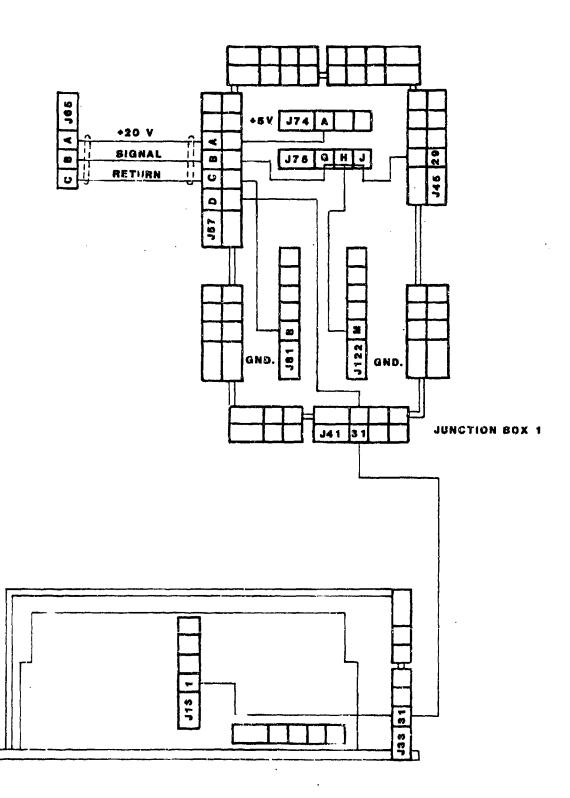


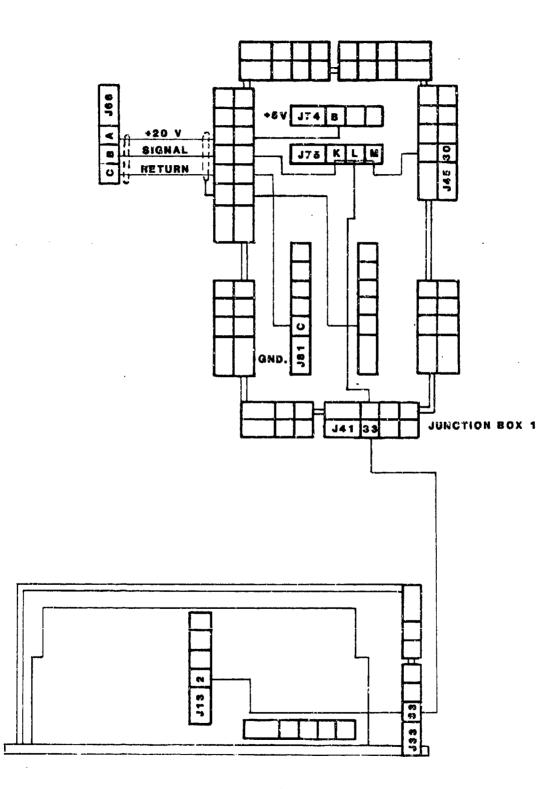
## J12-P18 INPUT ENGINE SPEED



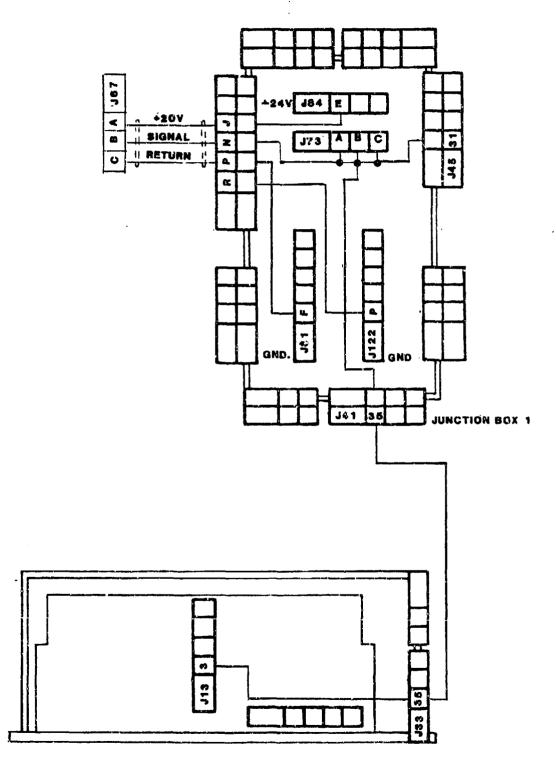
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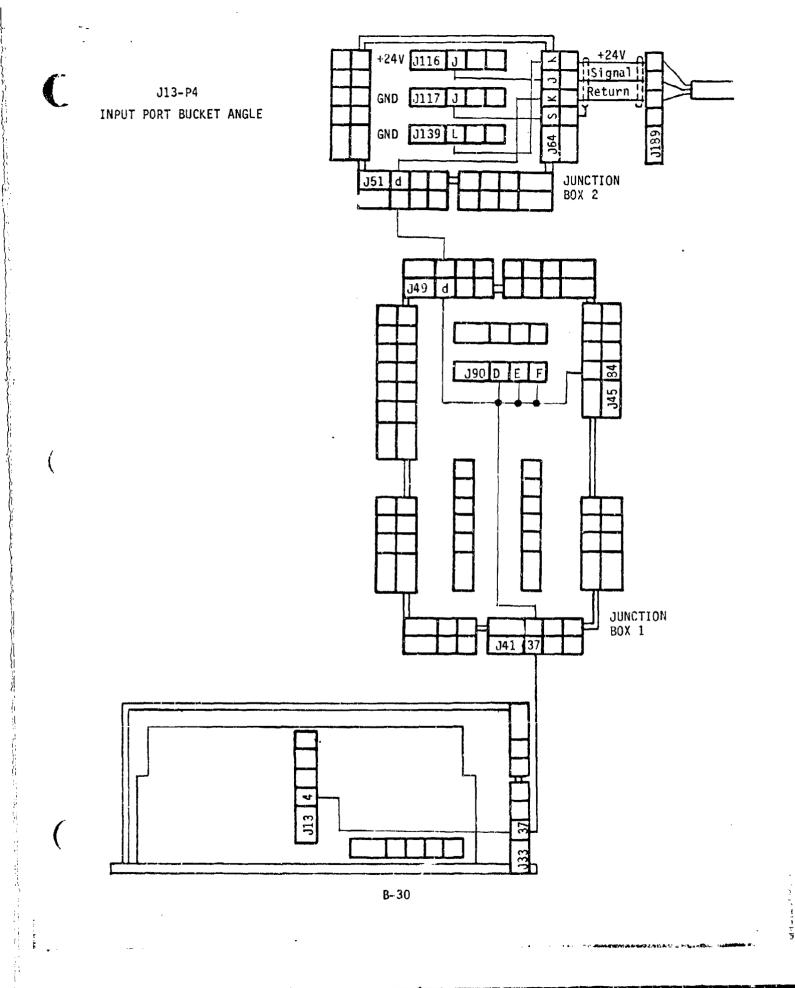
## J13-P1 INPUT DESIRED HIGH MOTOR SPEED

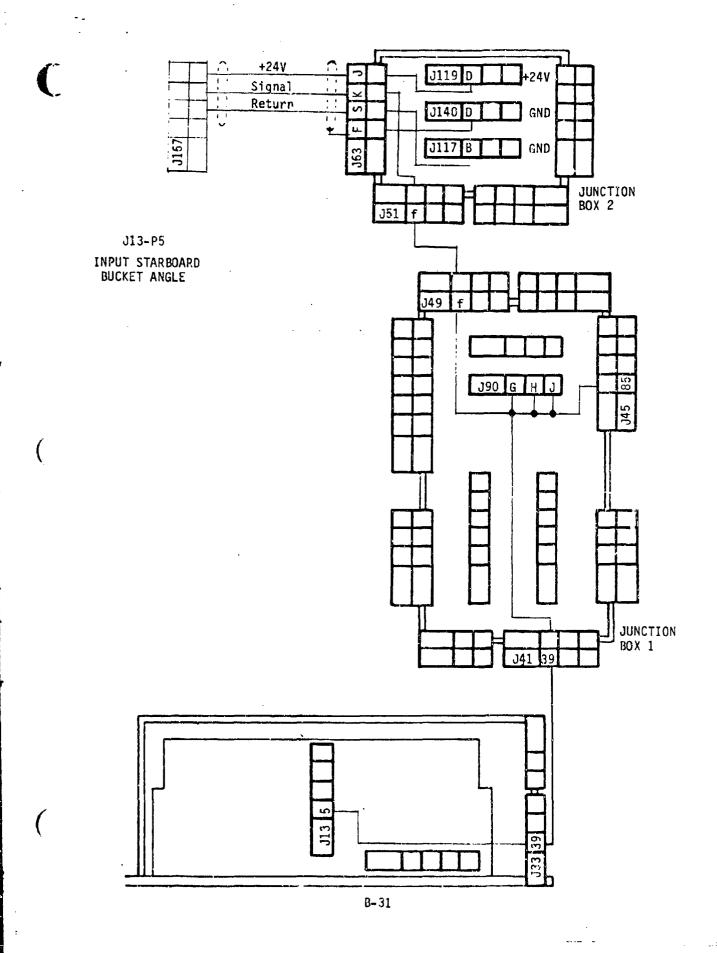


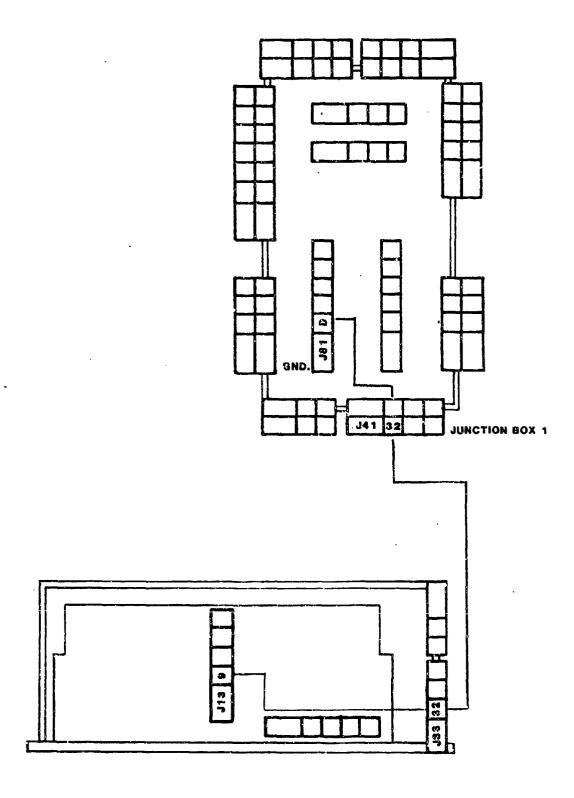


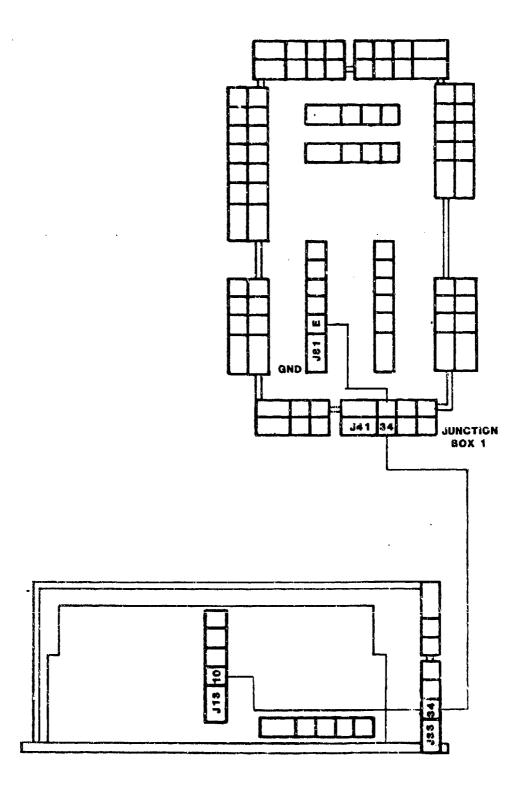
## J13-P3 INPUT DESIRED TURN RATIO



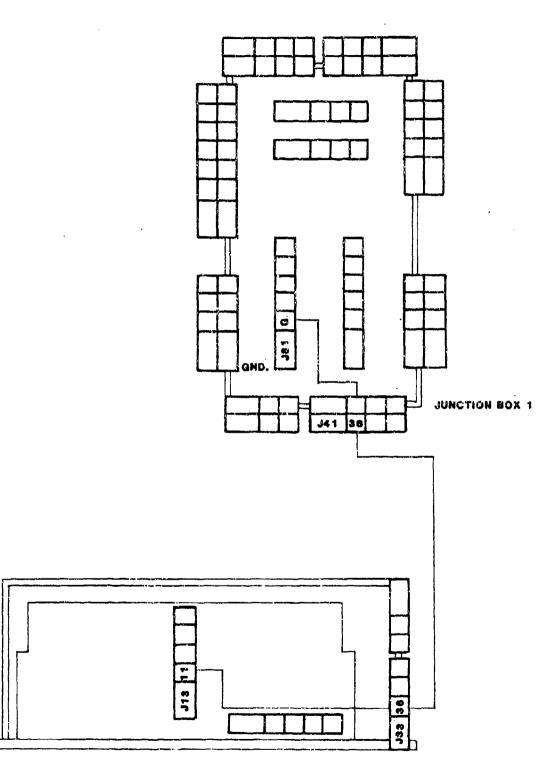


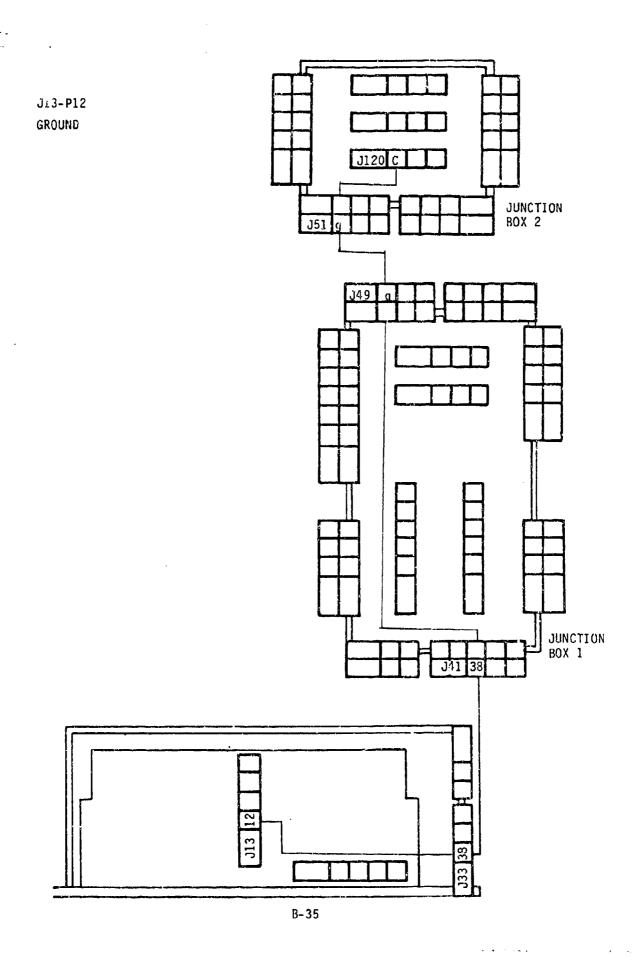




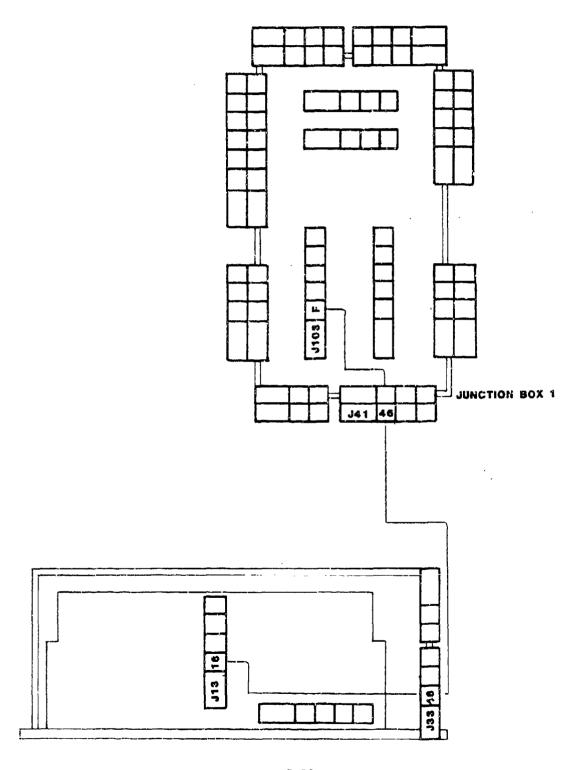


## J13-P11 GROUND

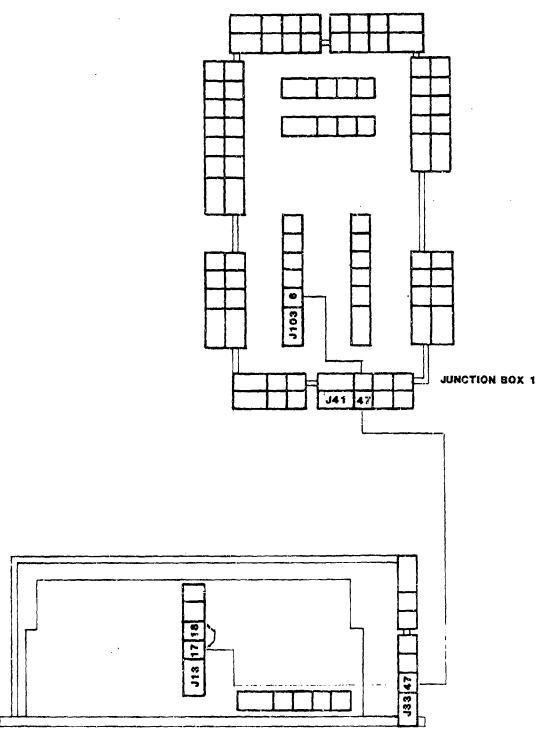




### J13-P16 GROUND

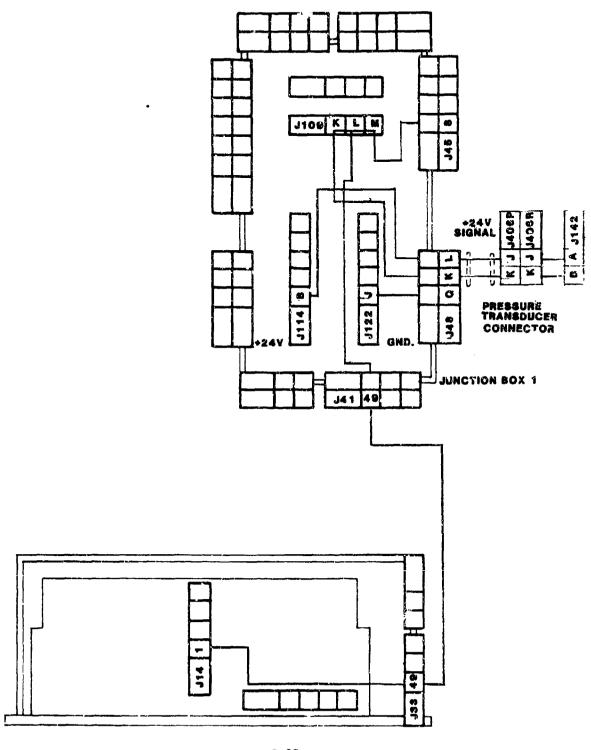


## J13-P17,P18 COMPUTER GROUND

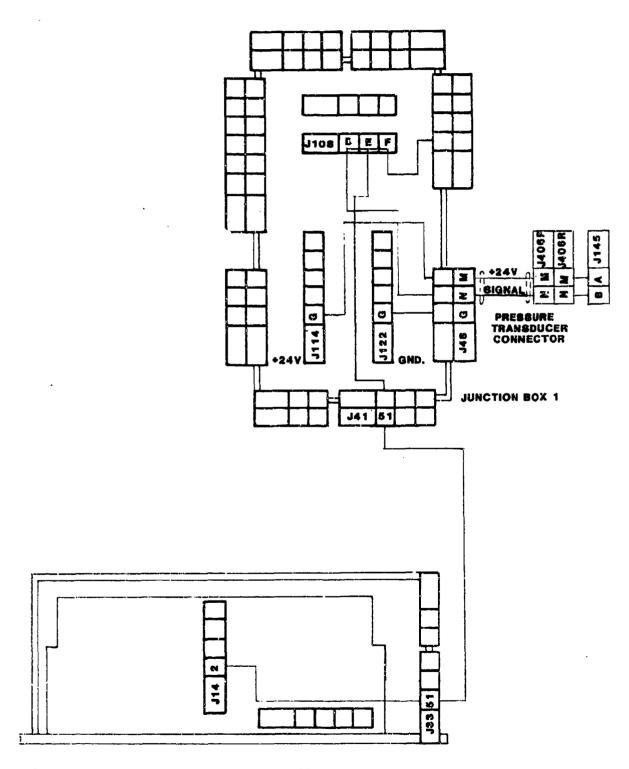


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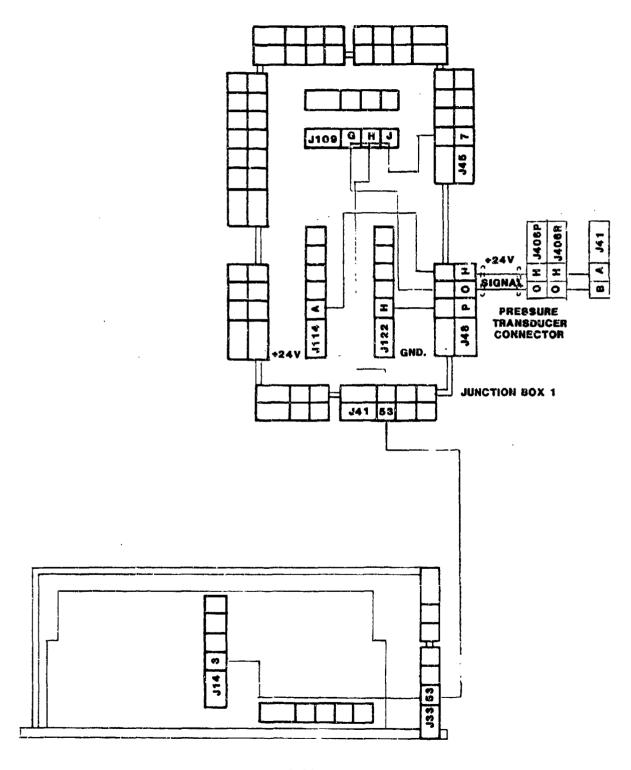
### J14-P1 INPUT PORT FORWARD MOTOR PRESSURE



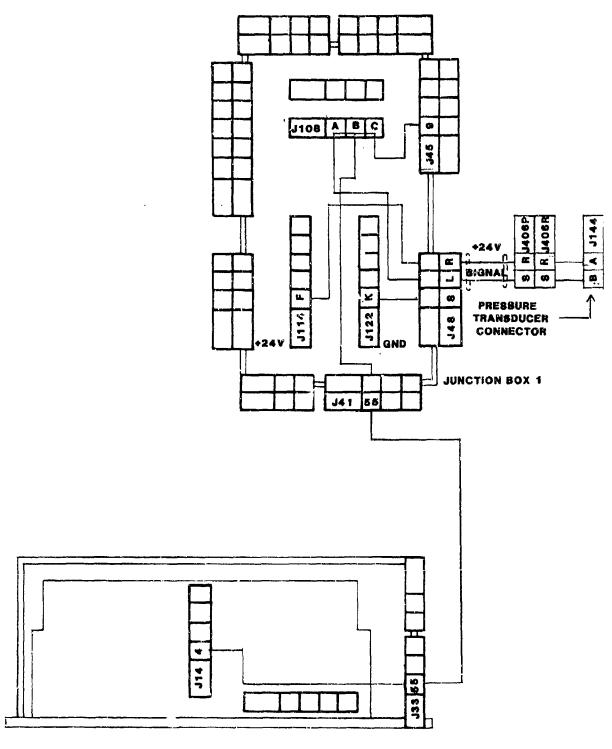
### J14-P2 INPUT STARBOARD FORWARD MOTOR PRESSURE

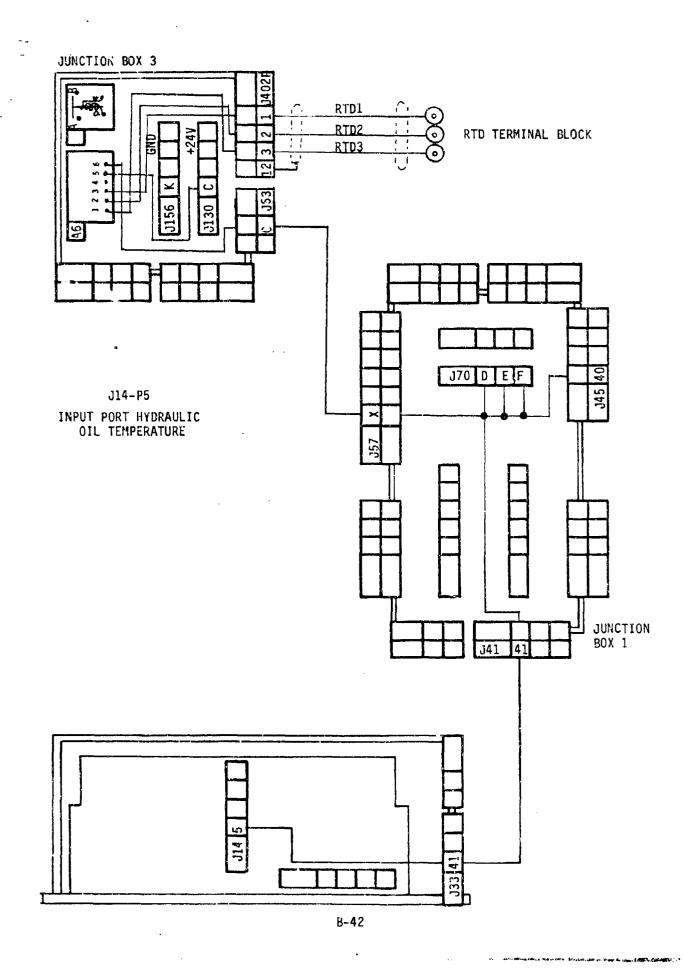


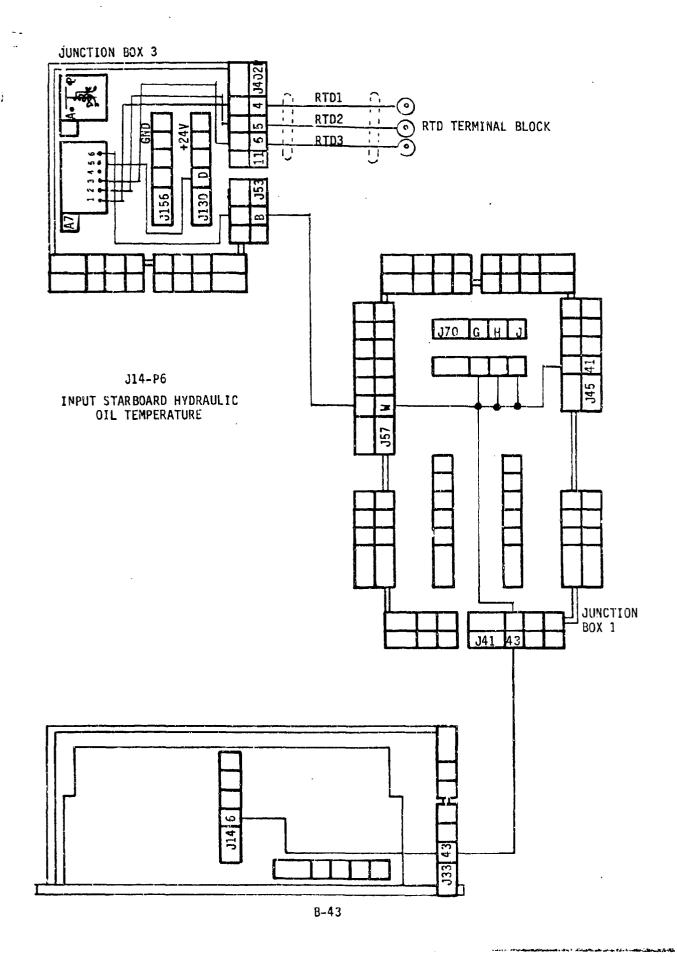
### J14-P3 INPUT PORT AFT MOTOR PRESSURE

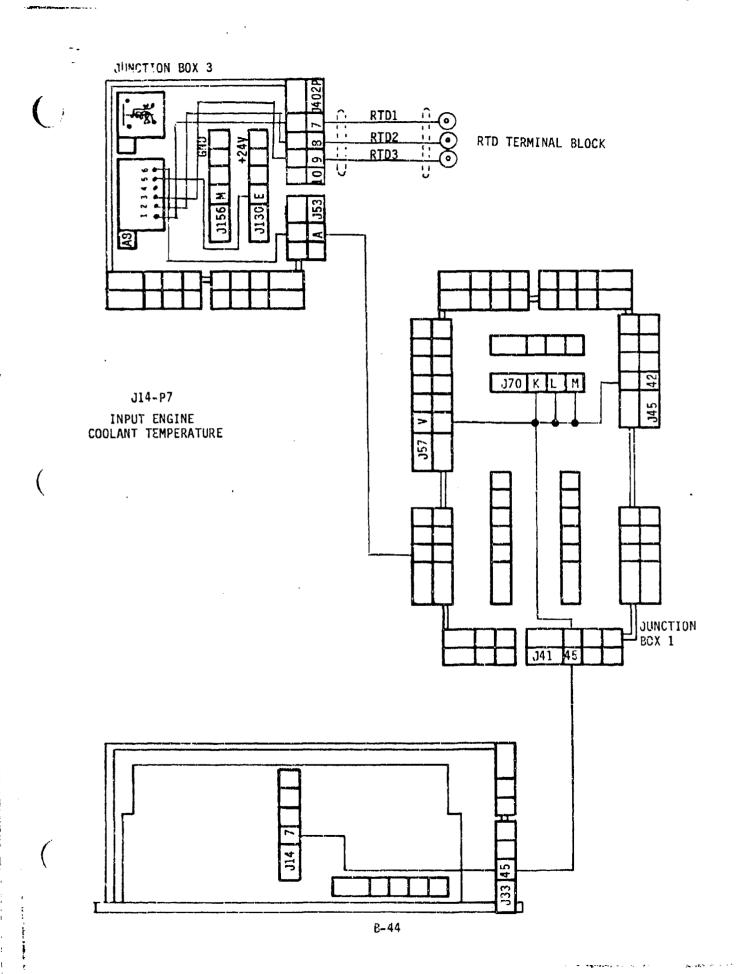


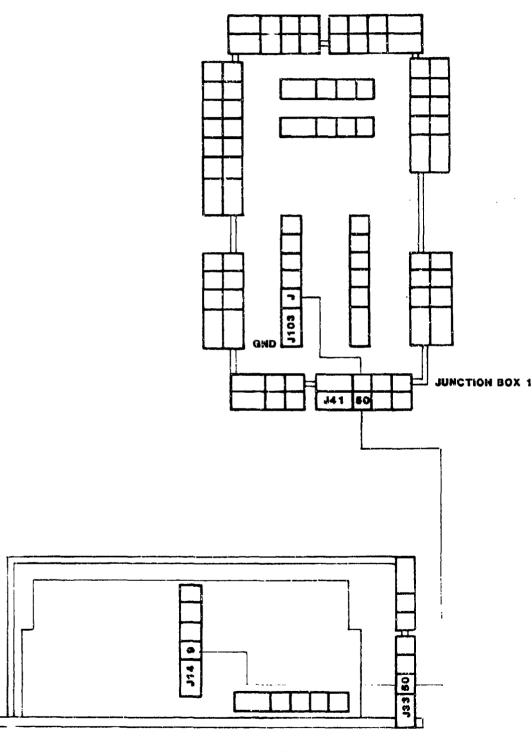
#### J14-P4 INPUT STARBOARD AFT MOTOR PESSURE



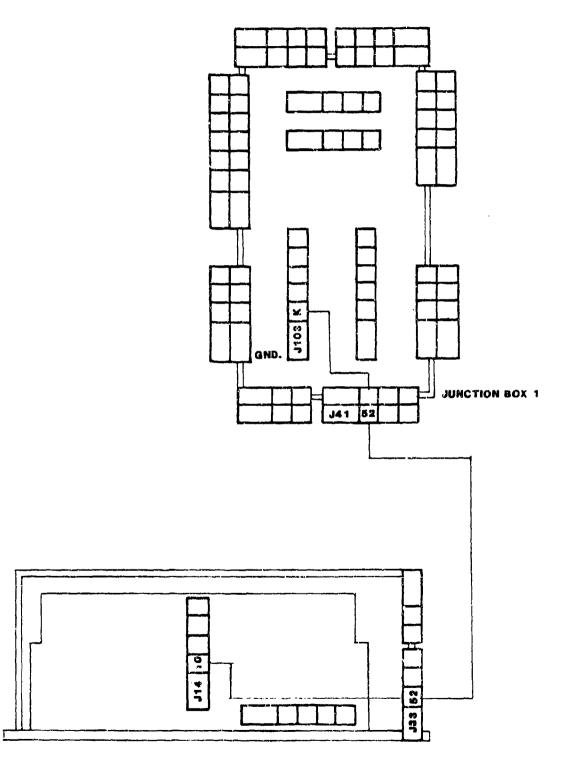




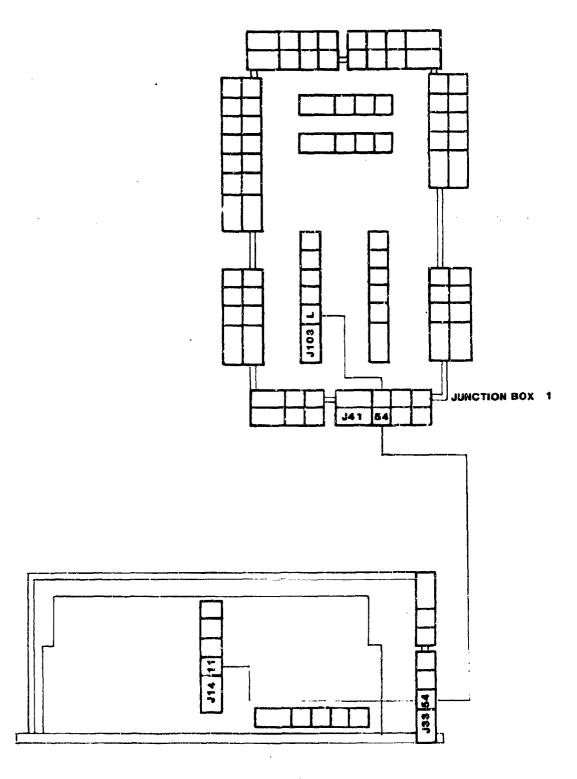




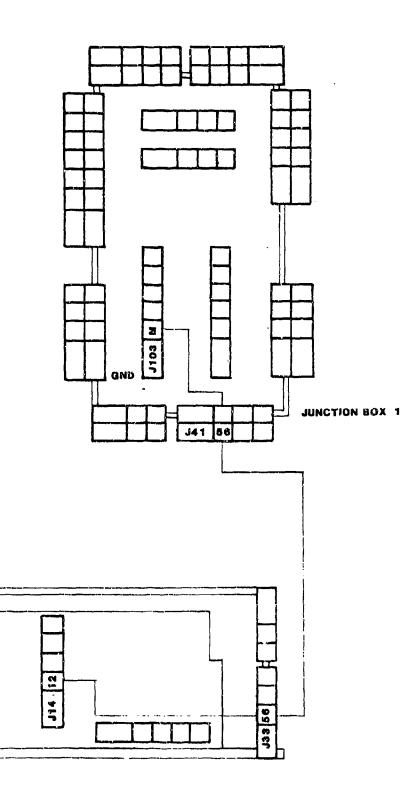
## J14-P10 GROUND

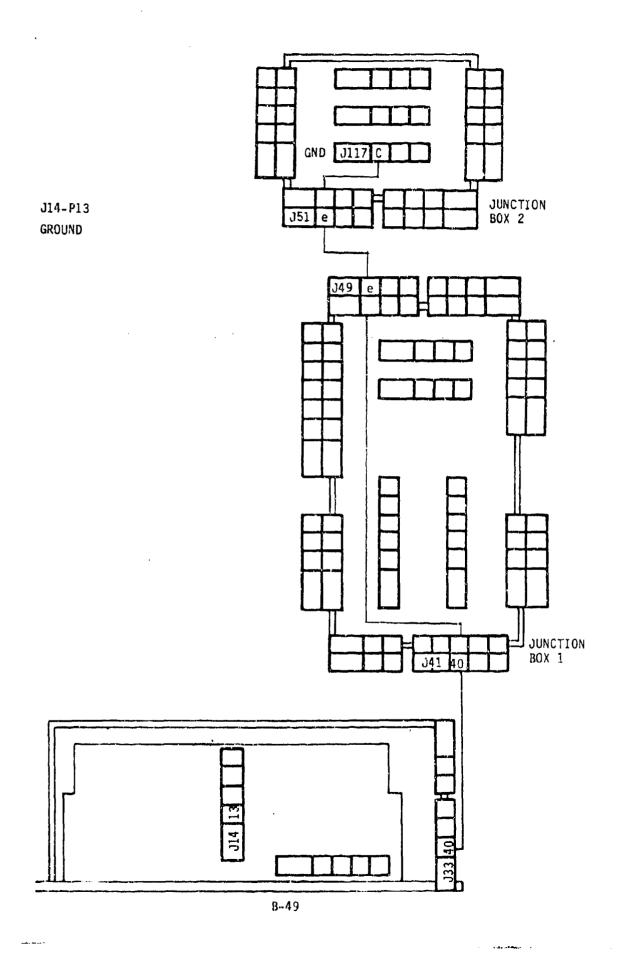


## J14-P11 GROUND

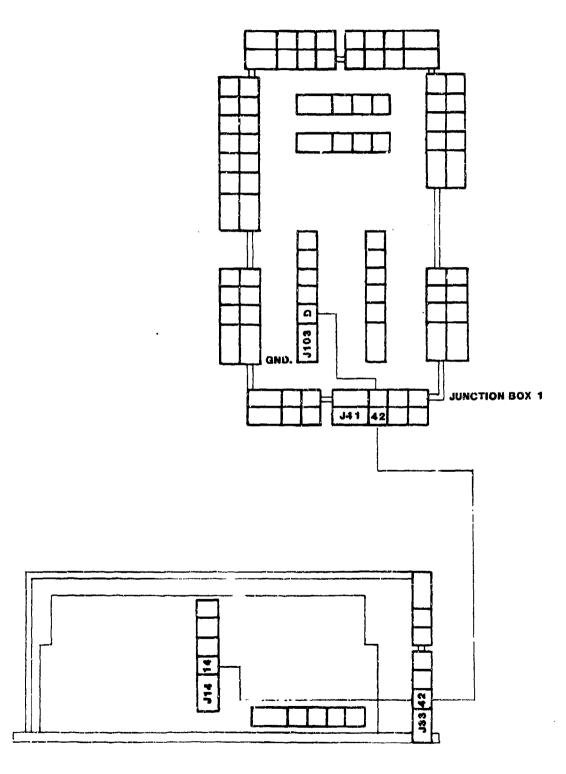


## J14-P12 GROUND

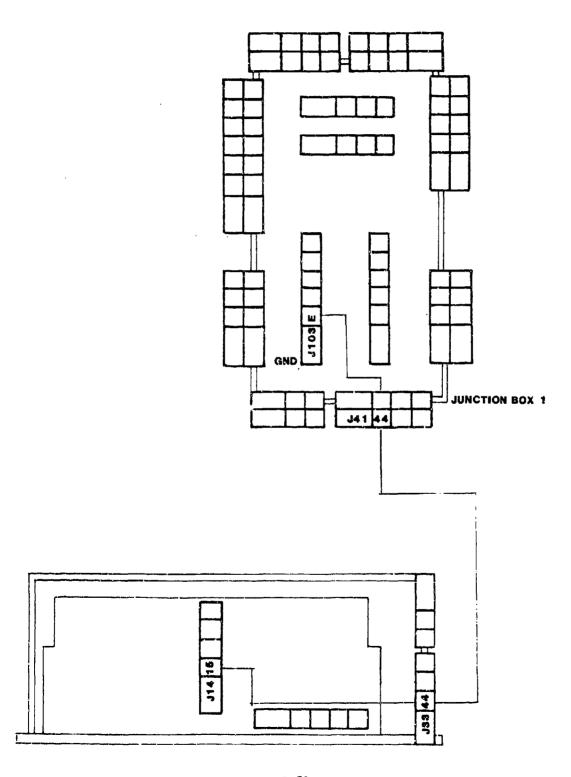




## J14-P14 GROUND

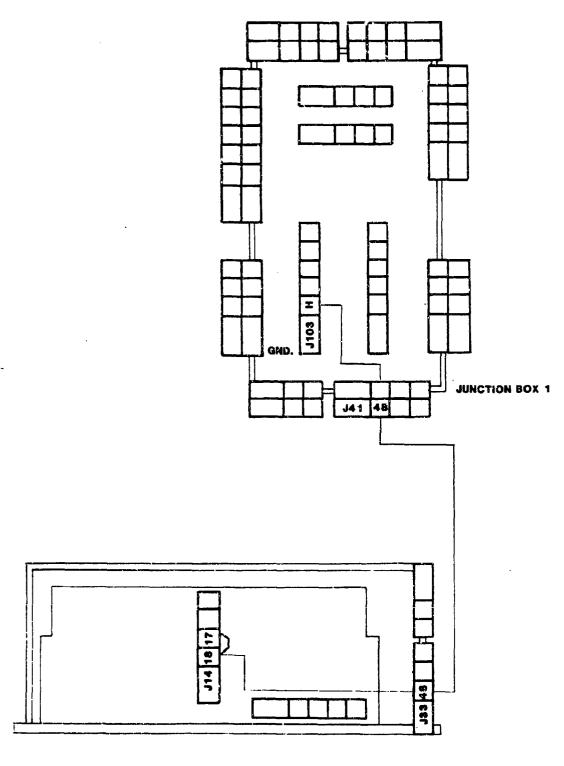


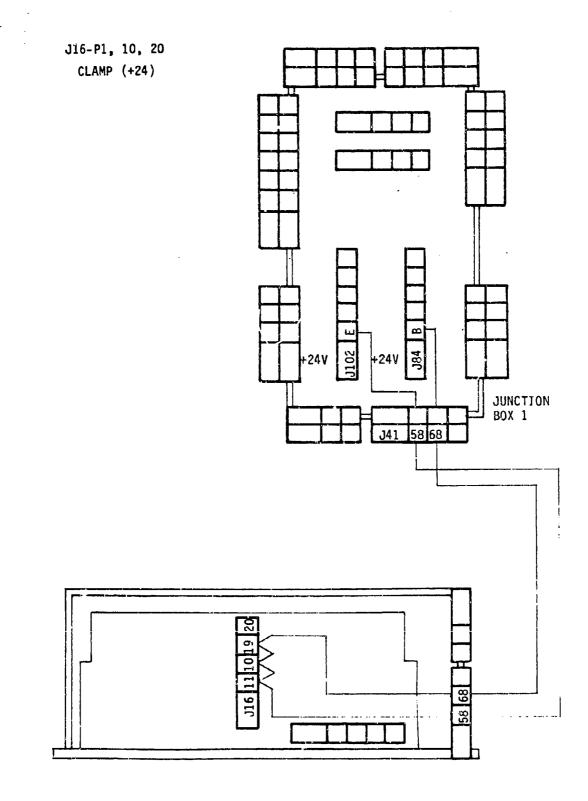
## J14-P15 GROUND

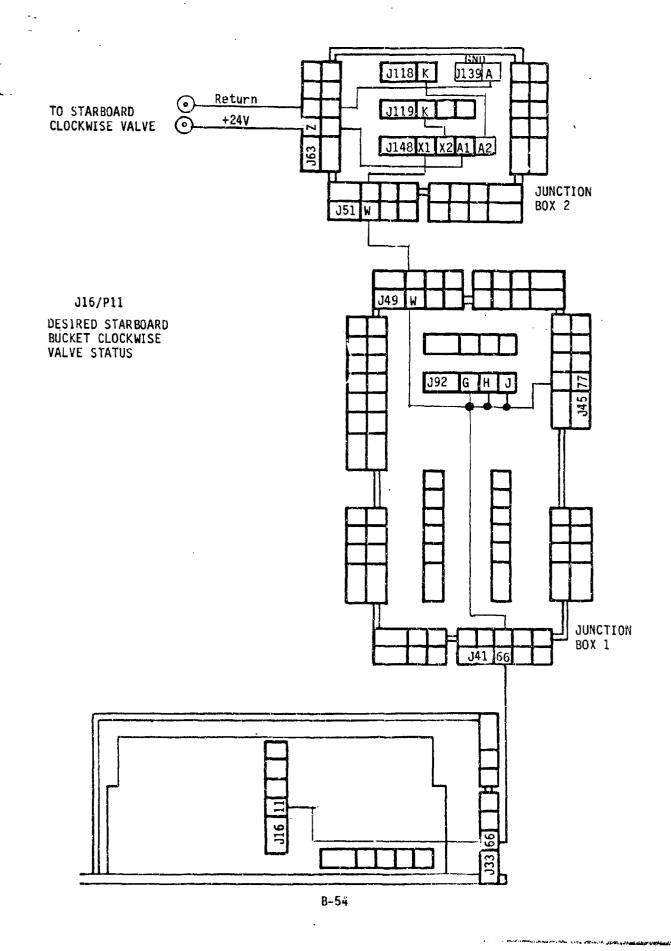


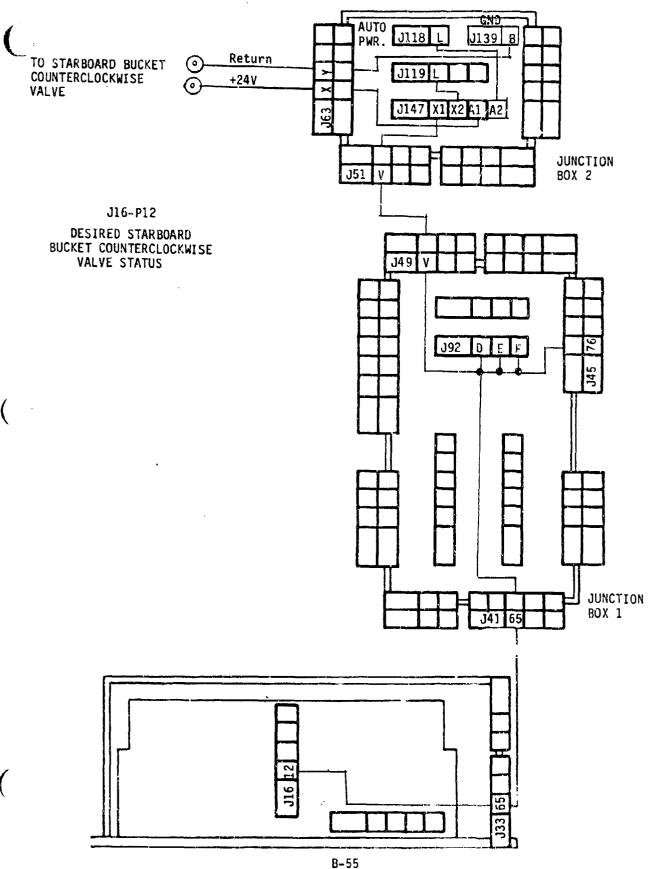
B-51

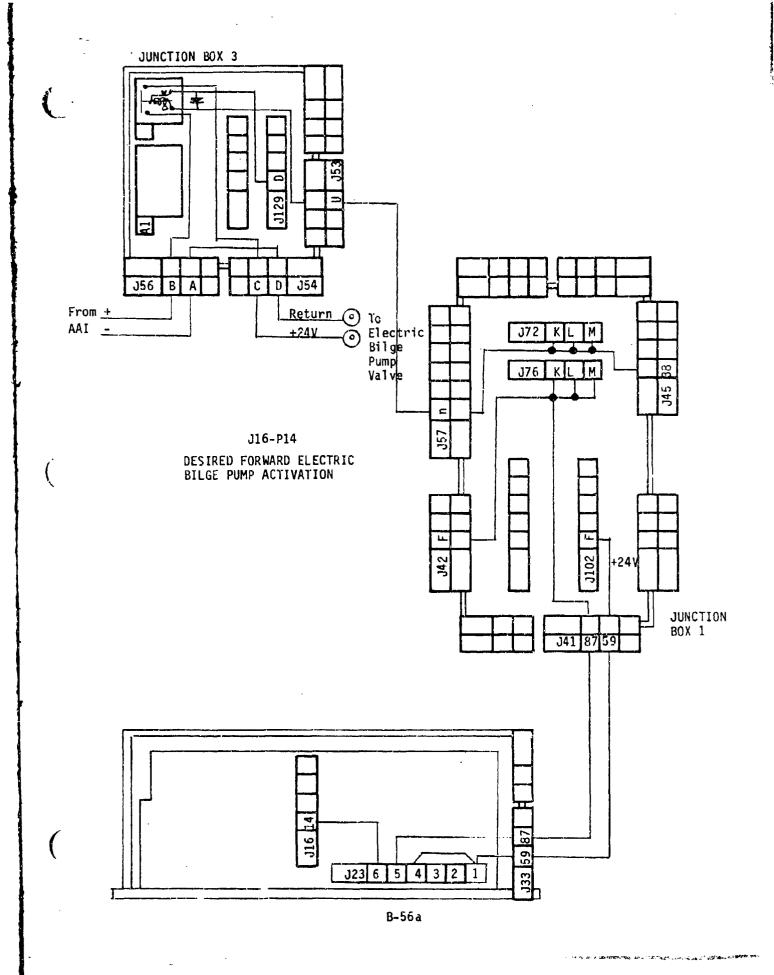
# J14-P18,P17 COMPUTER GROUND

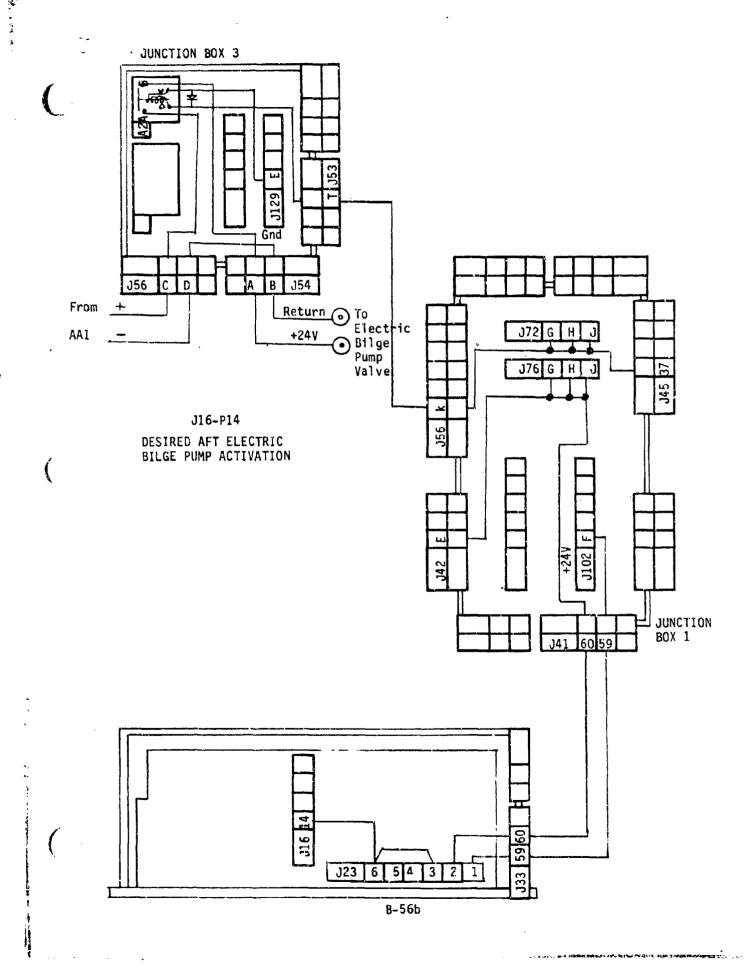


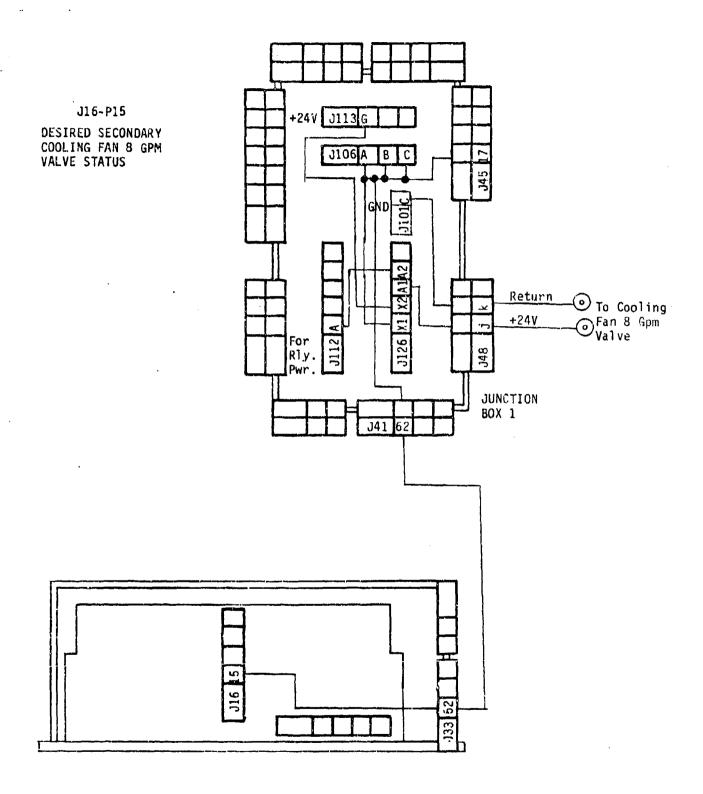


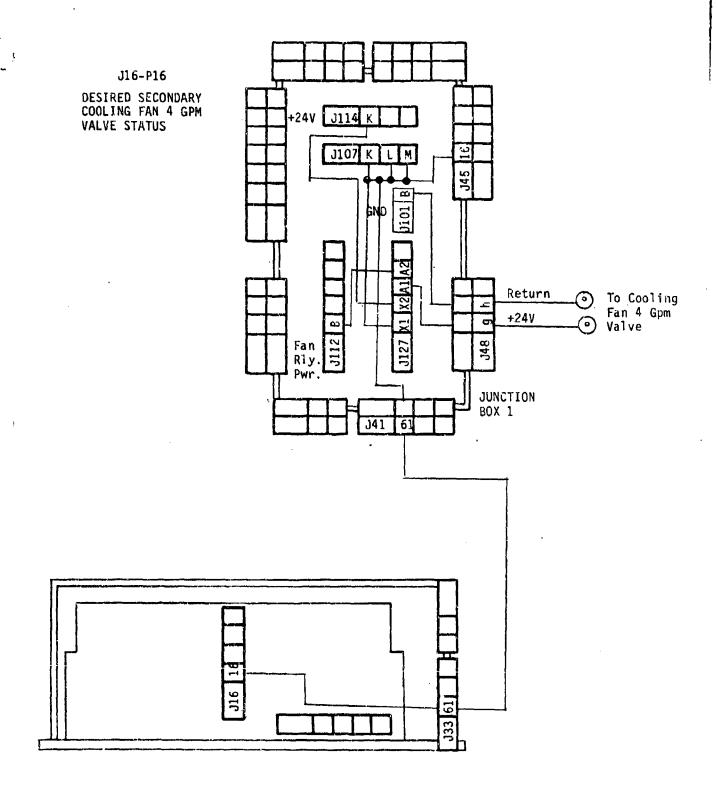


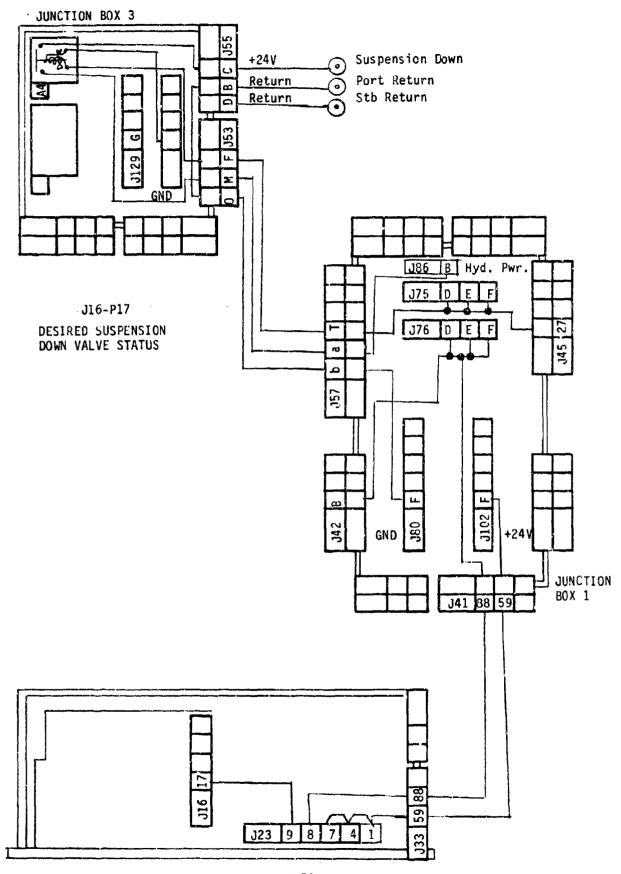


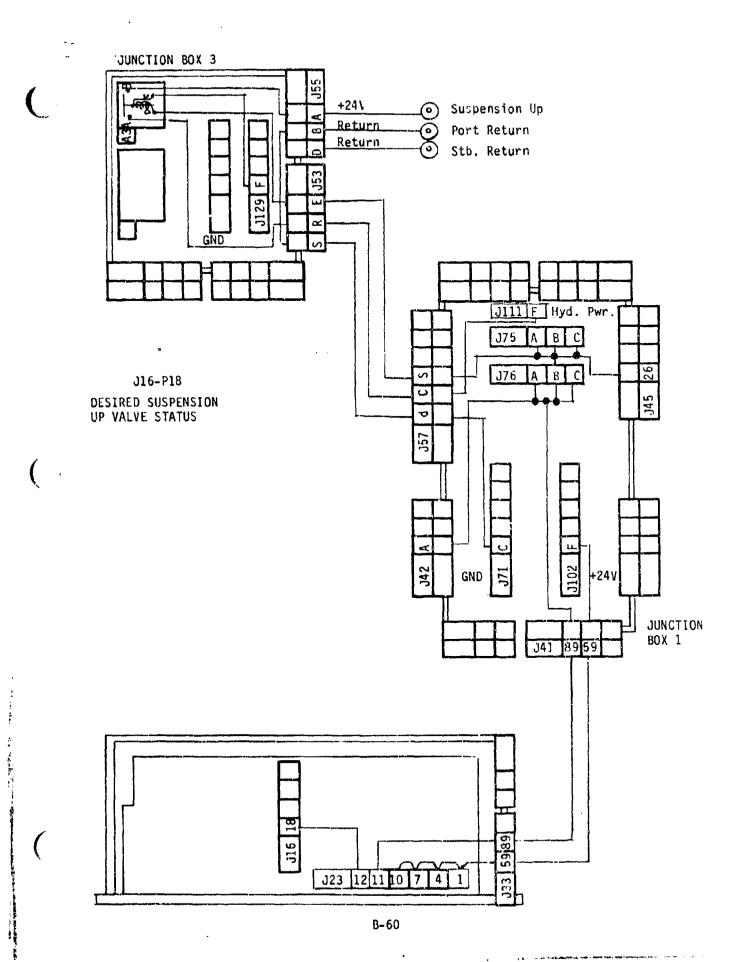




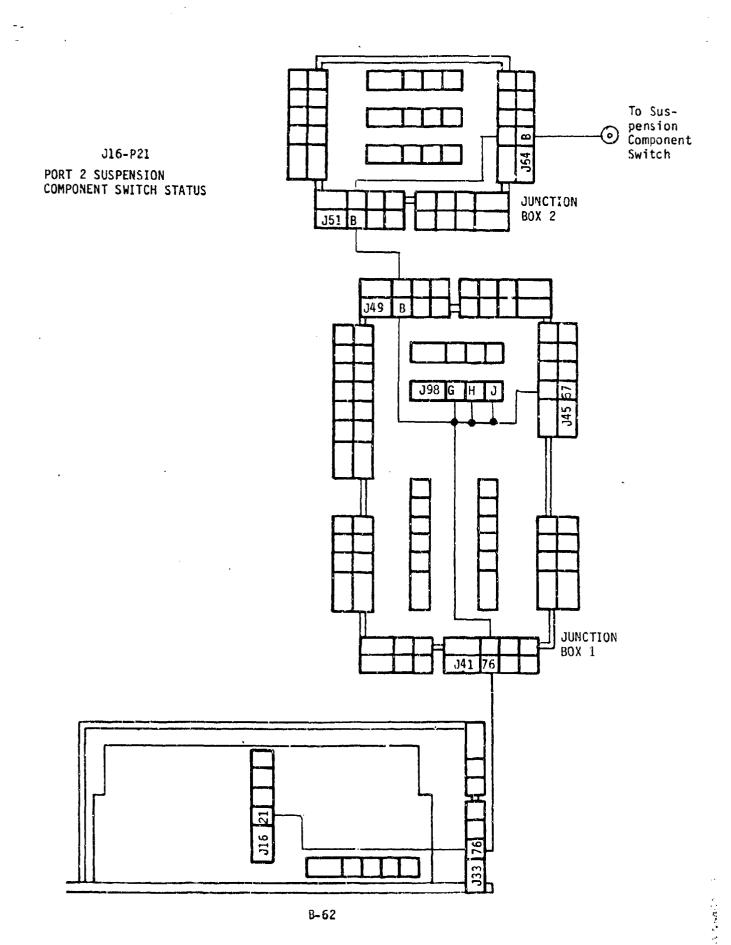


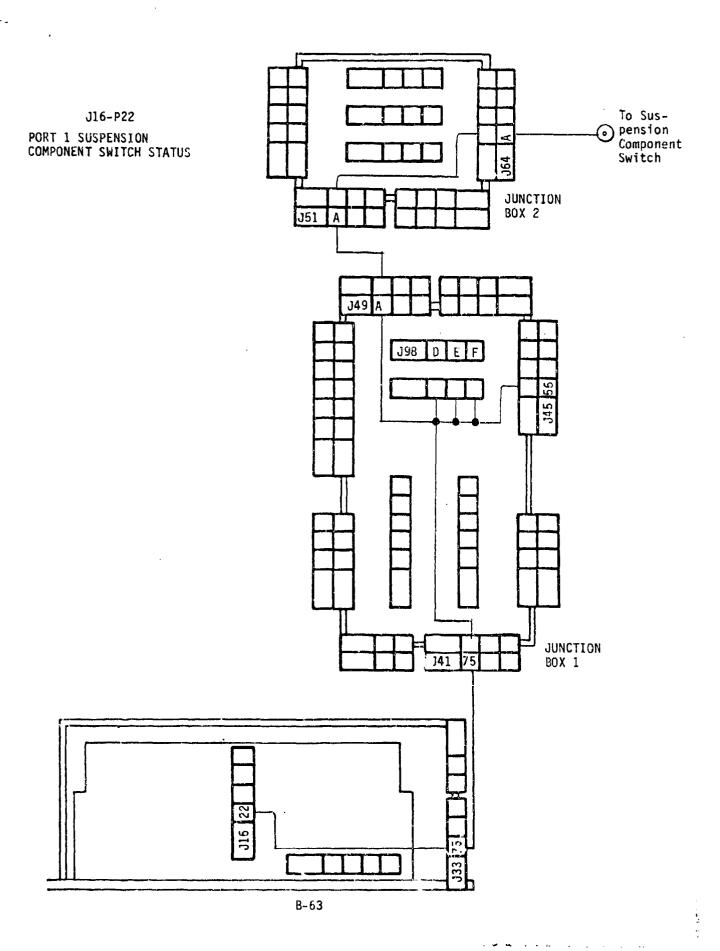


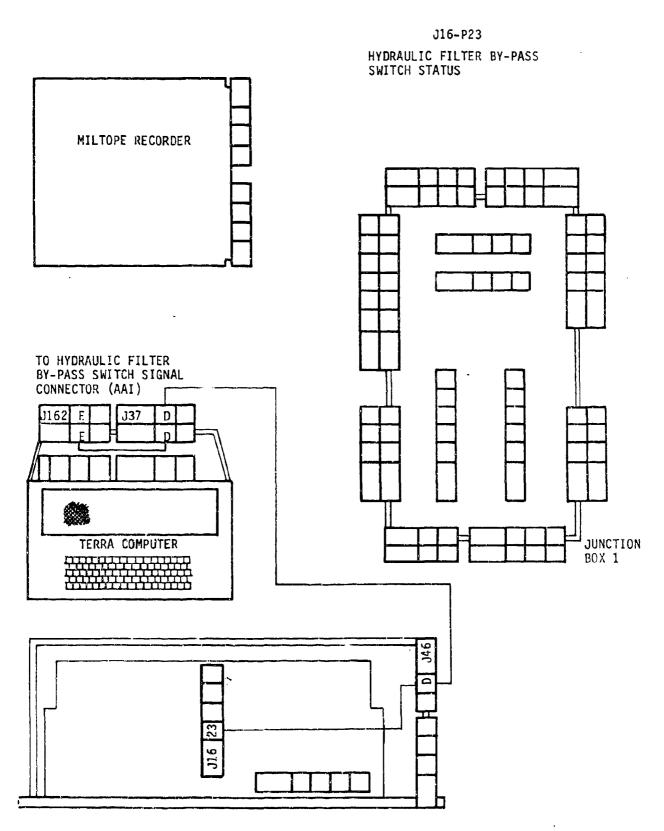




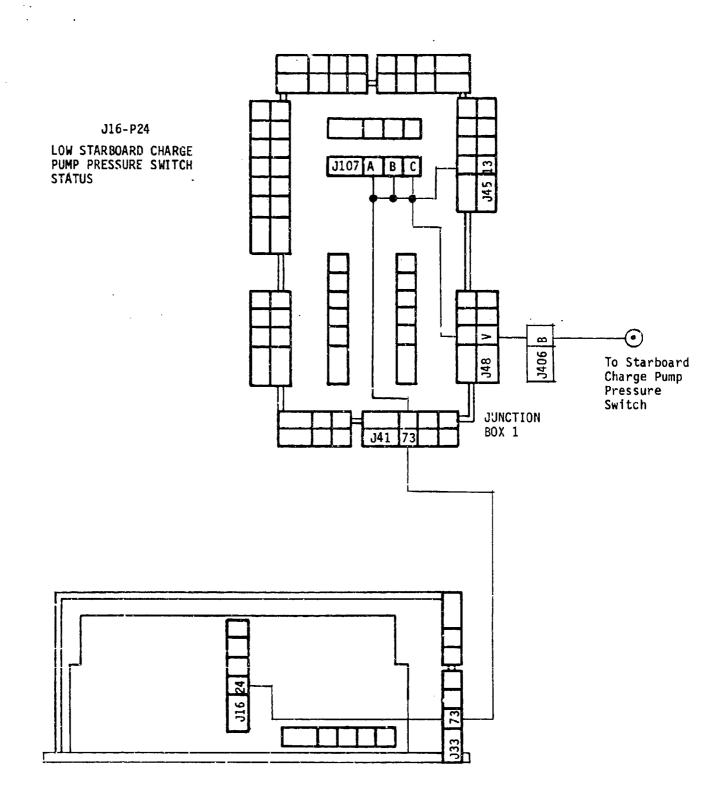
To Sus-pension Component Switch J16-P19 PORT 3 SUSPENSION COMPONENT SWITCH STATUS JUNCTION BOX 2 J51 J49 J98 K JUNCTION BOX 1 B-61

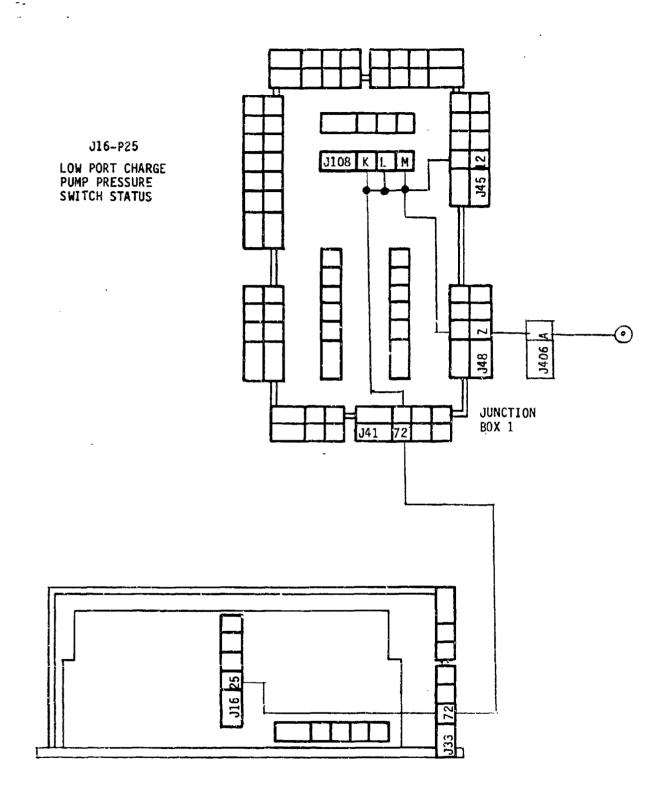


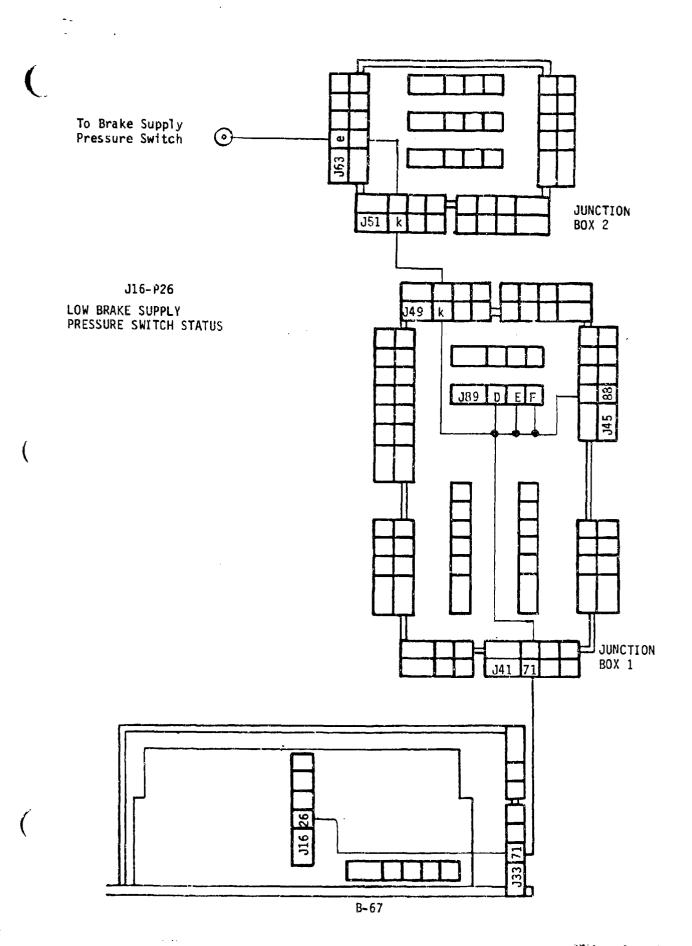


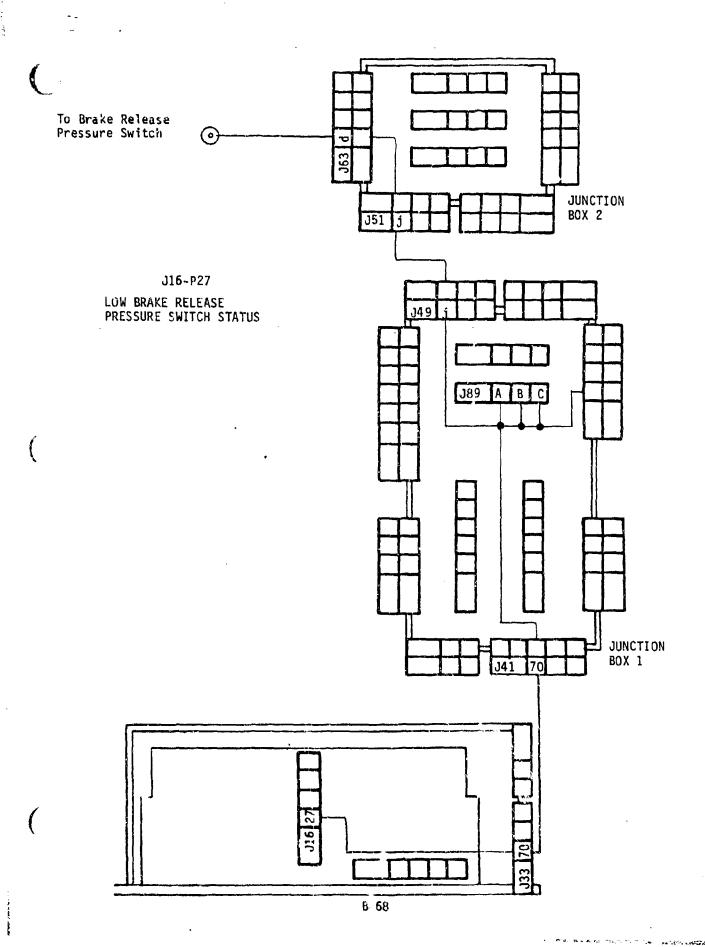


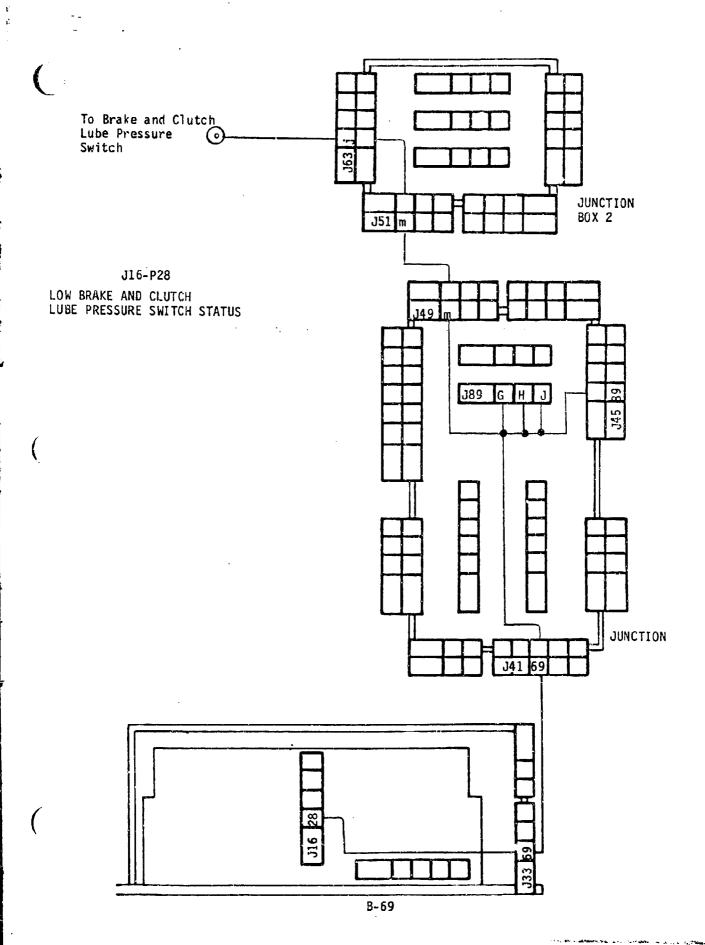
B-64

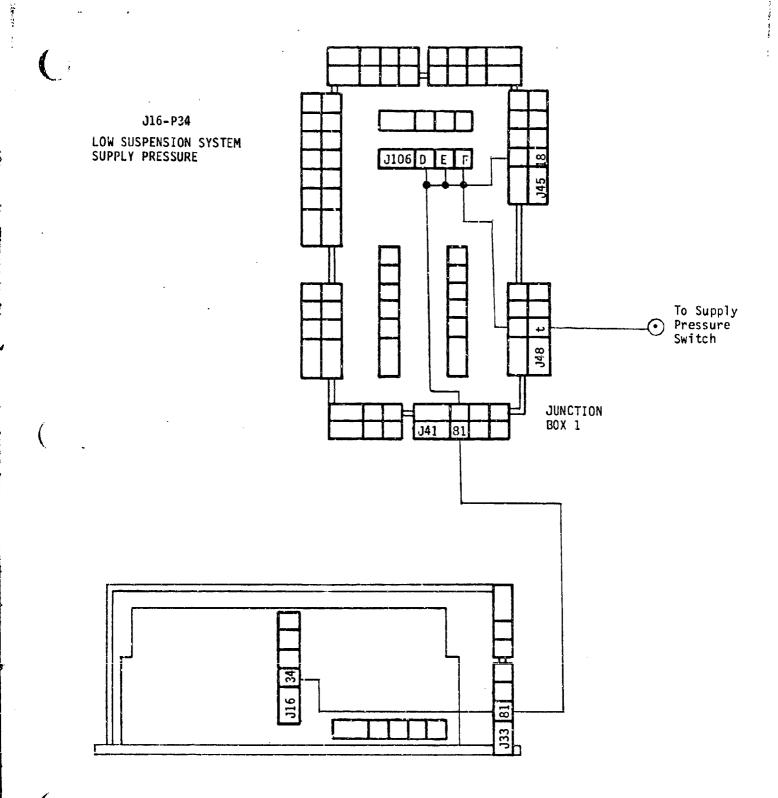


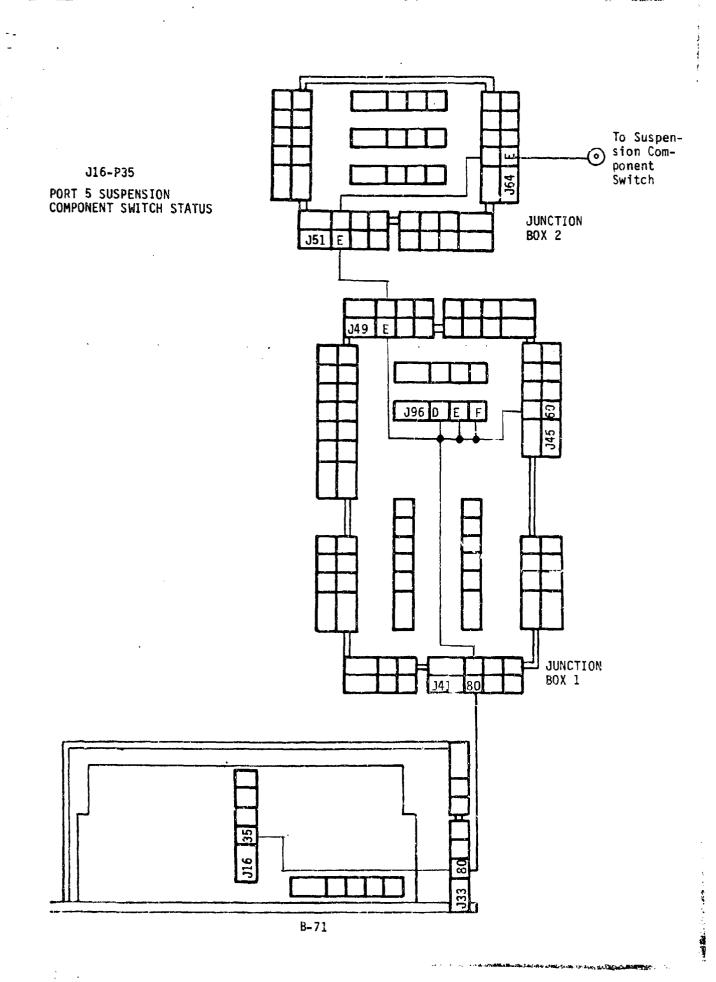


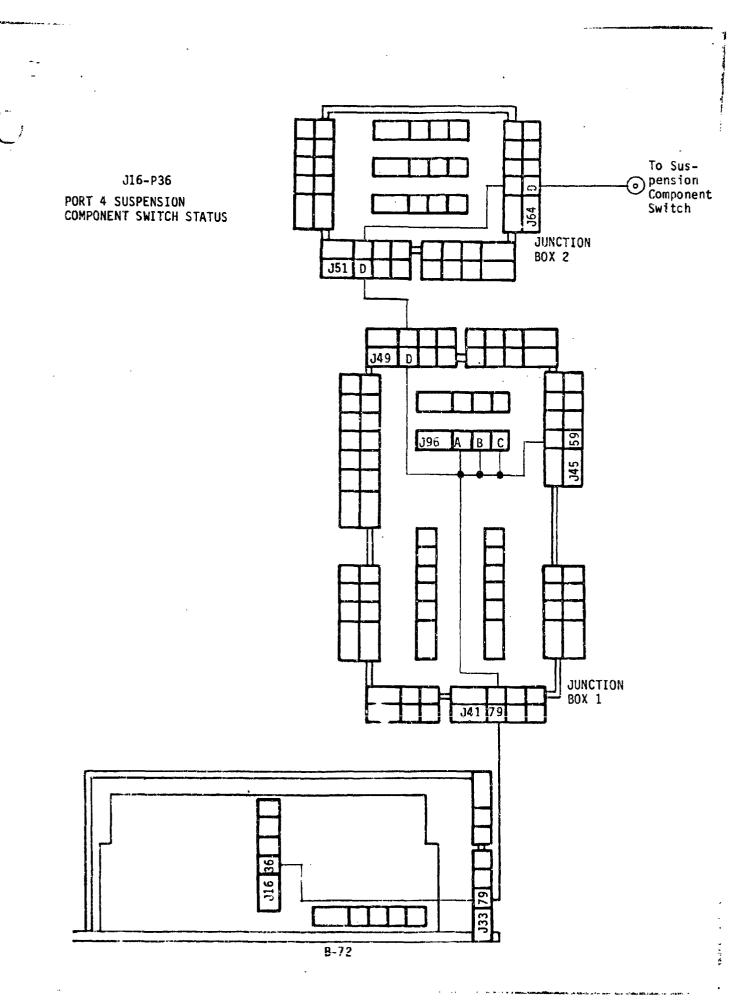


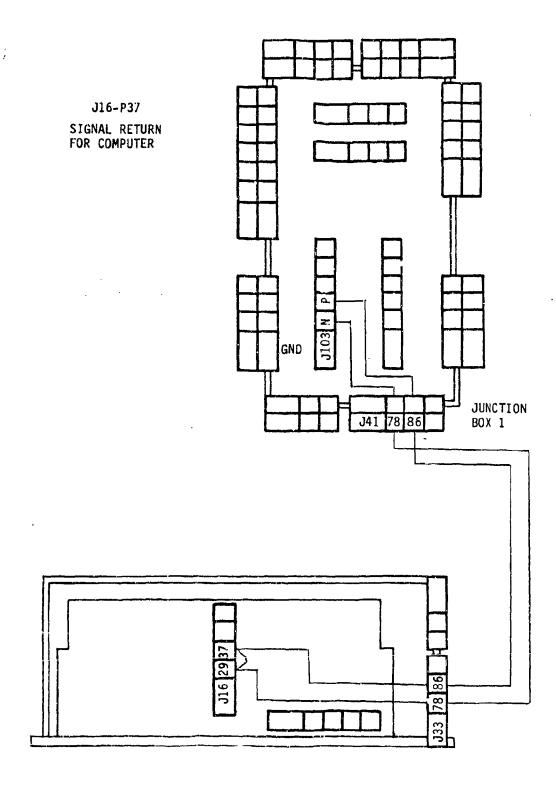




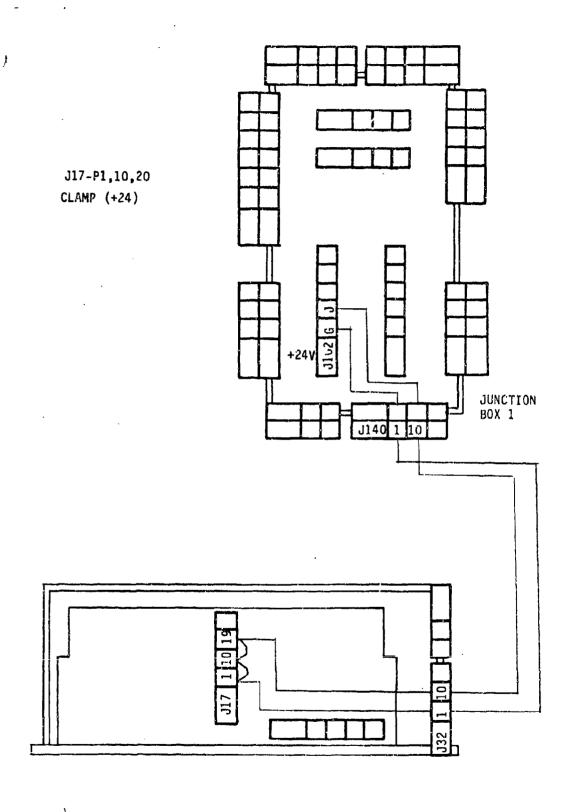


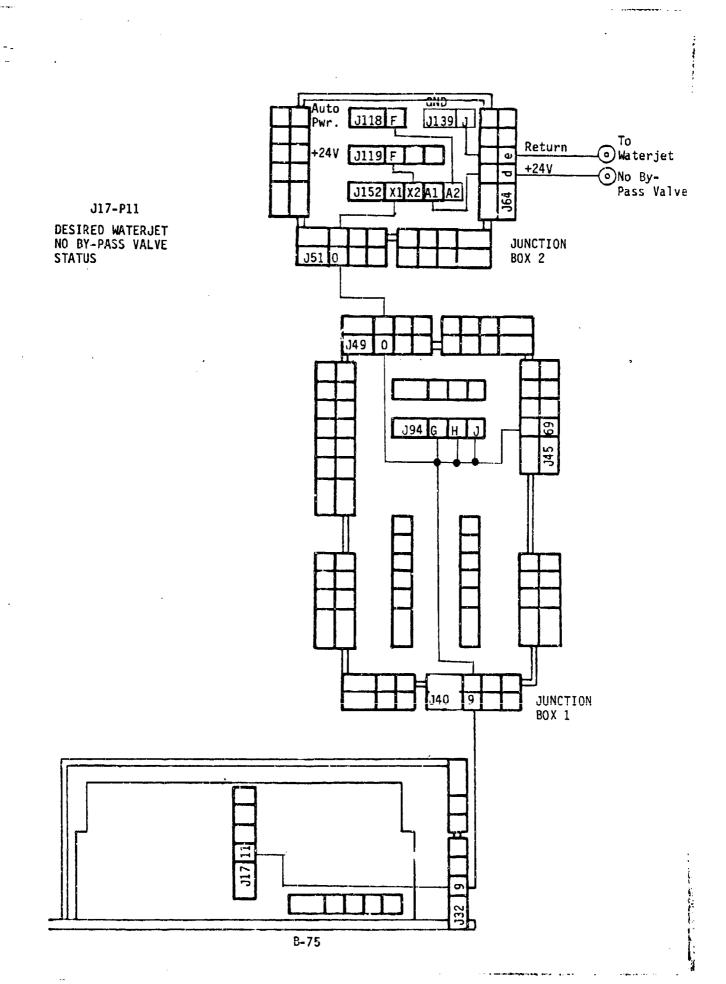


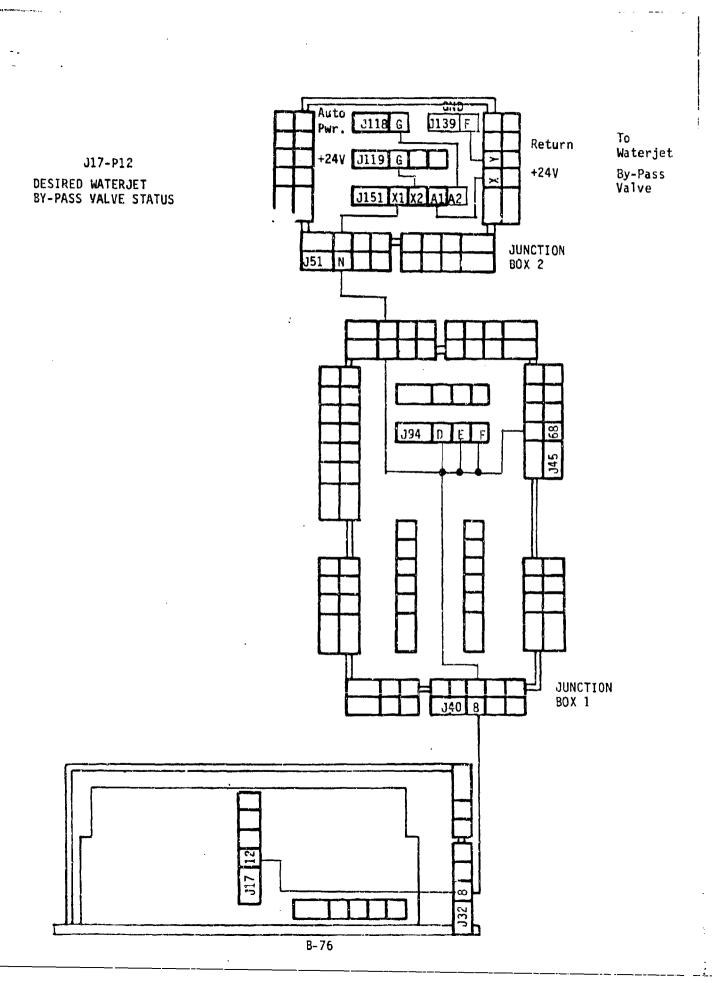


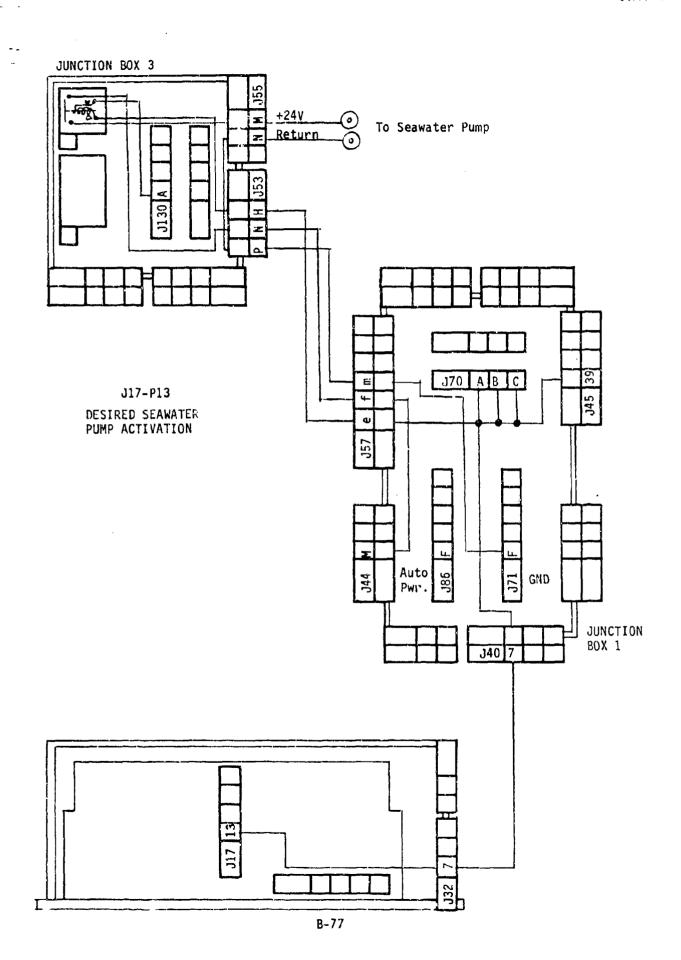


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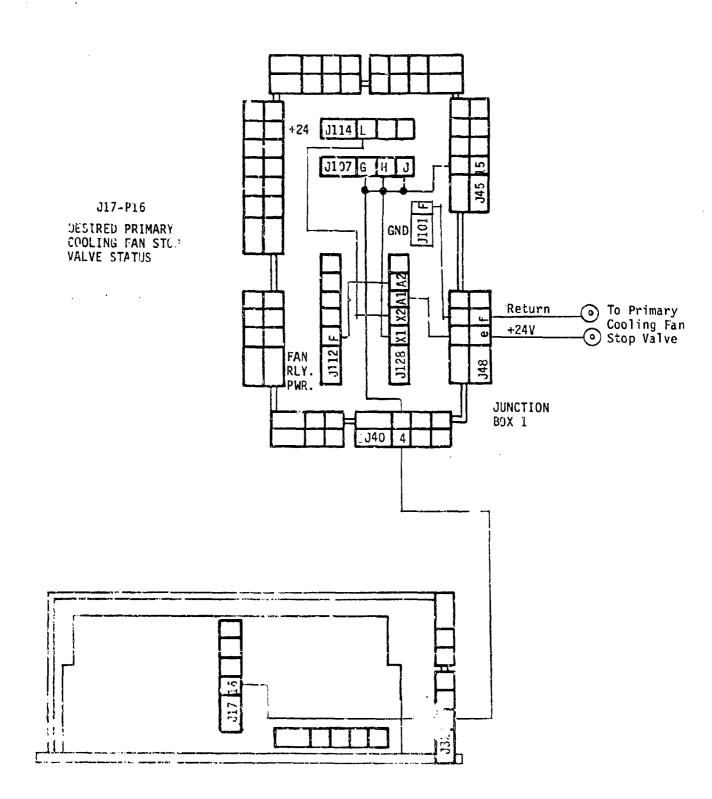


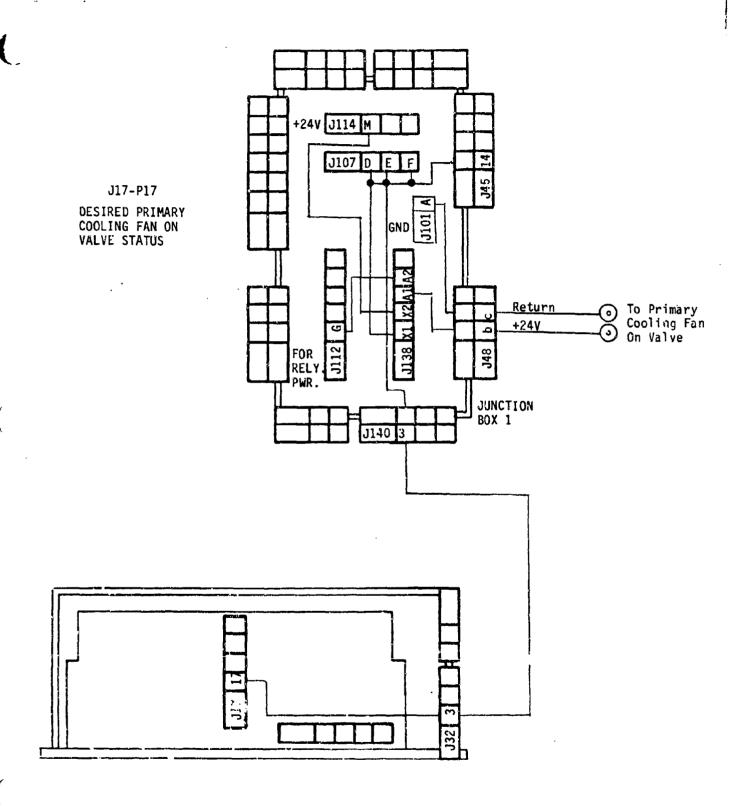


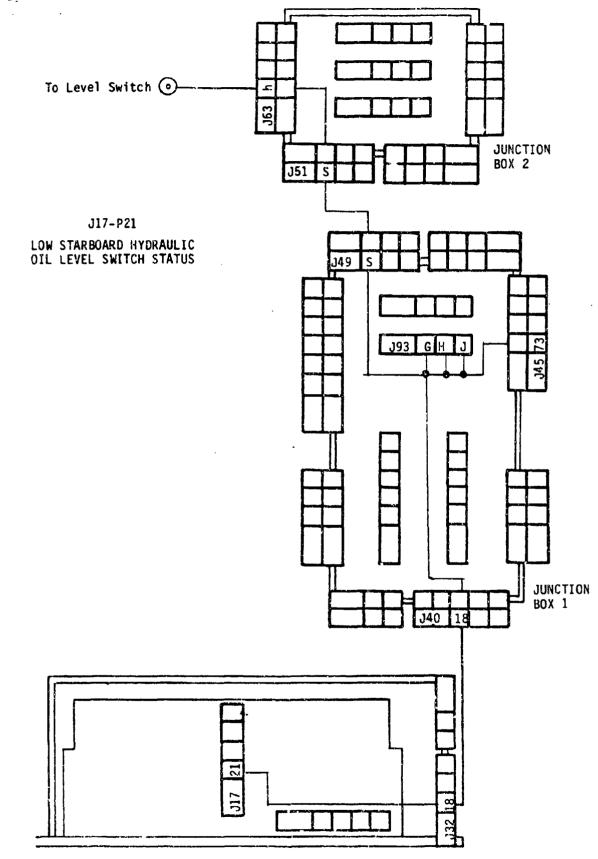


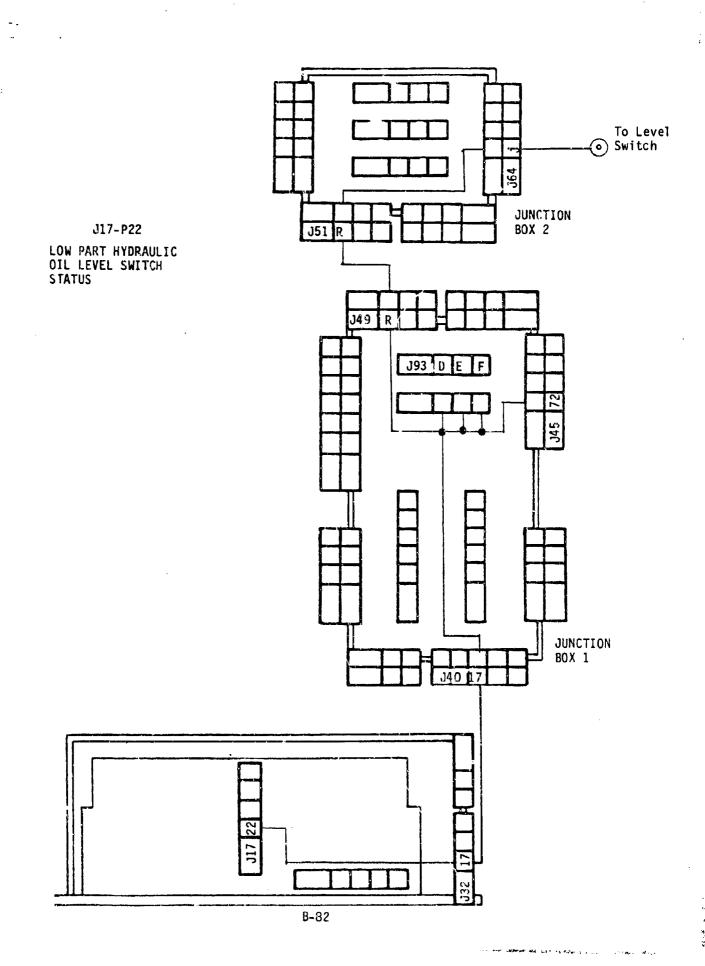


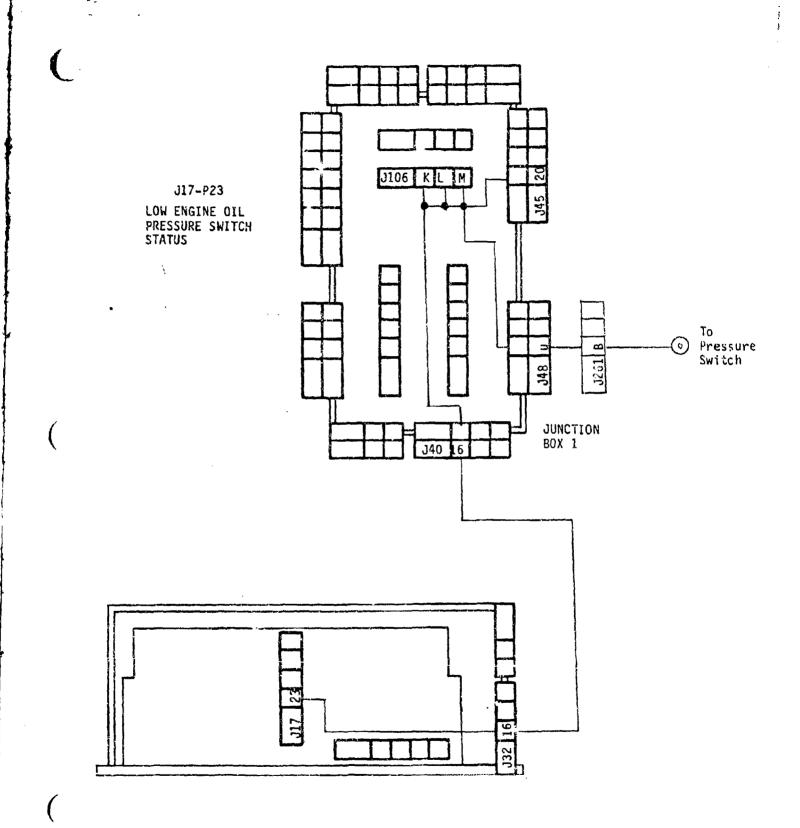
+24V J113 B J105 K J17-P15 DESIRED SECONDARY
GRILL OPEN VALVE STATUS GND To
Secondary
Grill Open
Valve Return +241 Hyd Pwr 348 JUNCTION BOX 1 J140

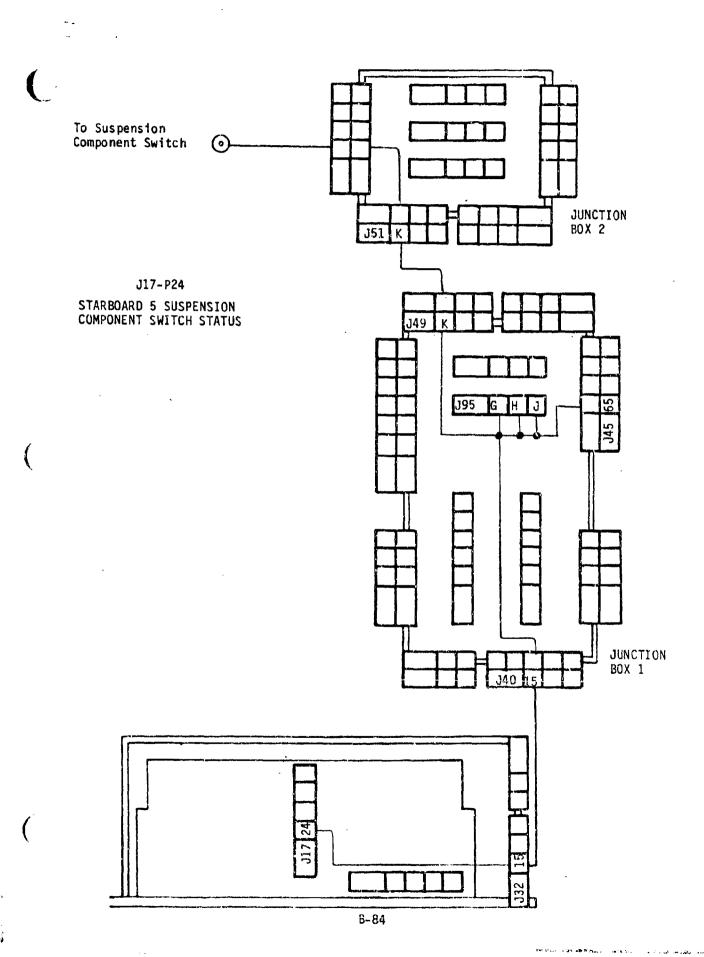


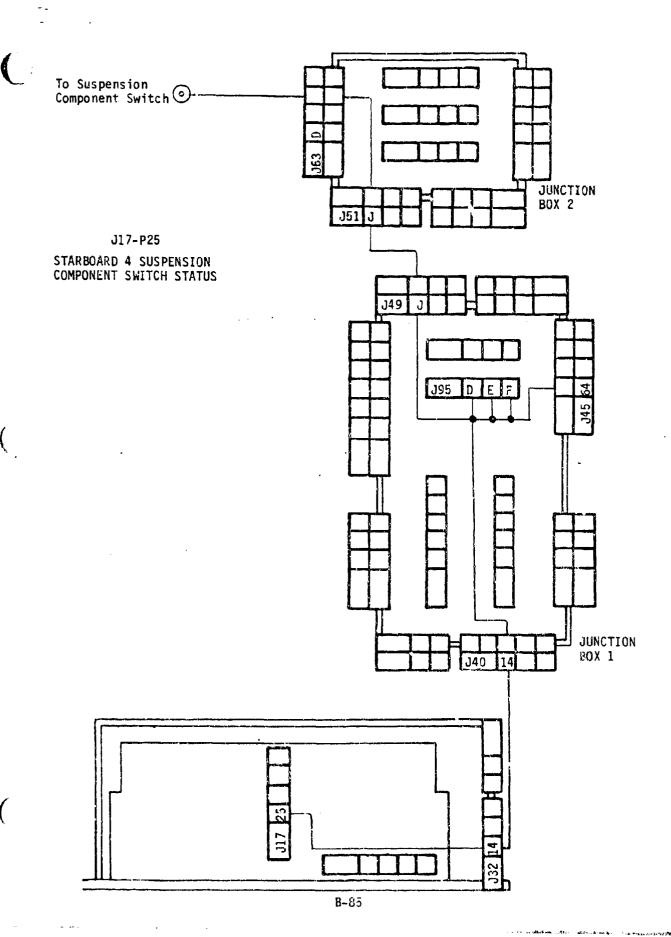


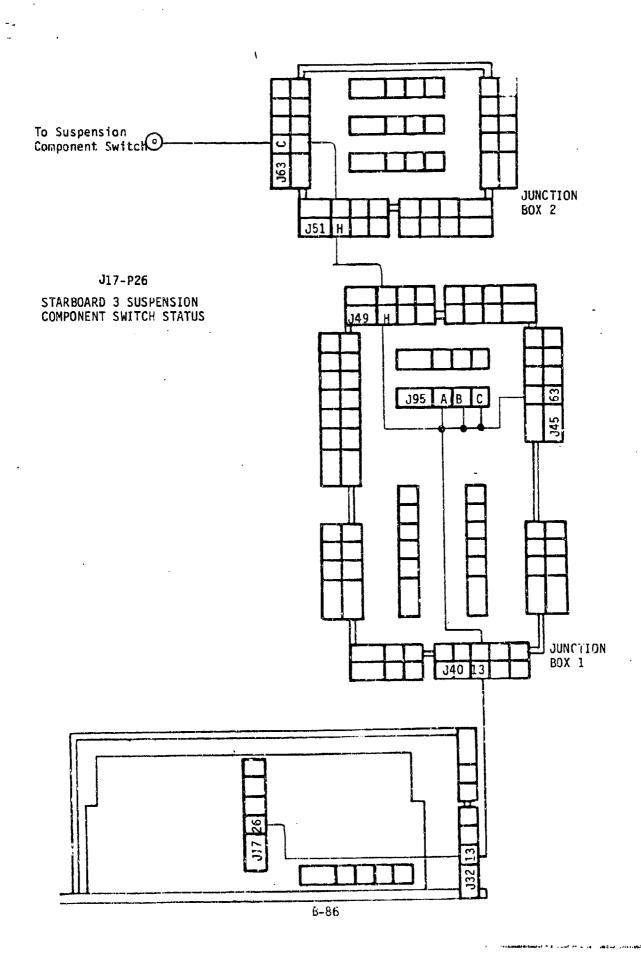


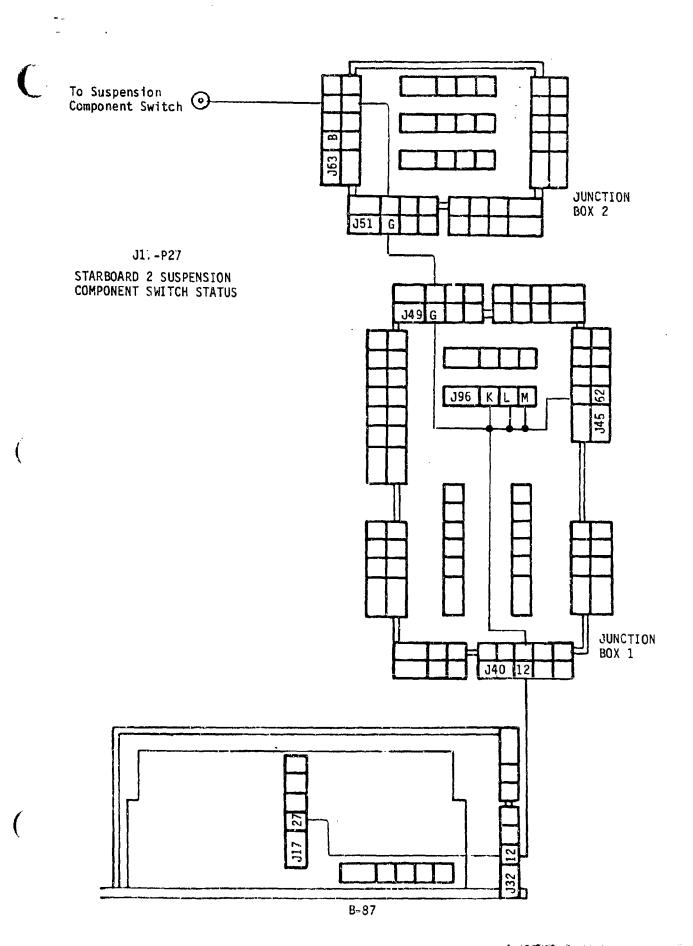


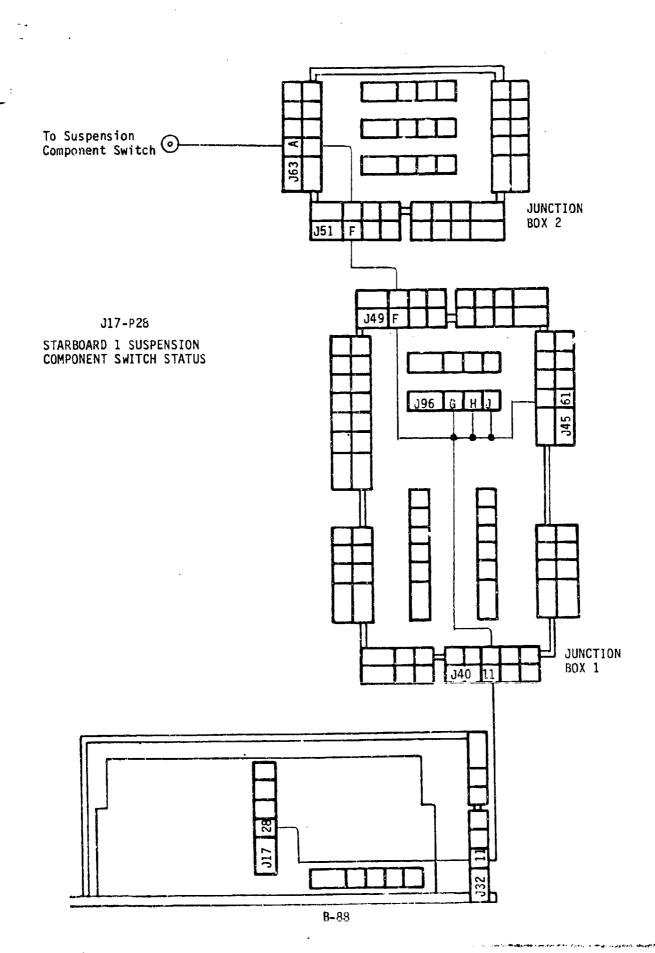


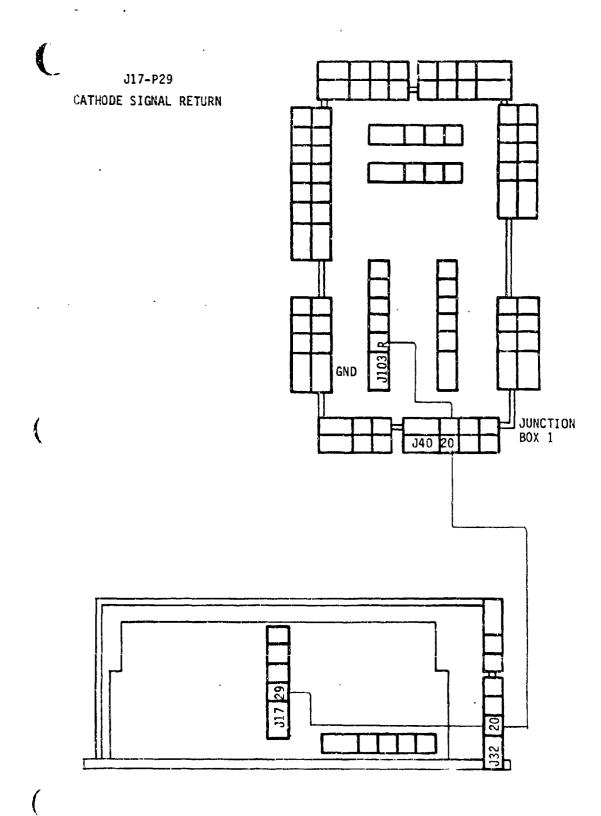


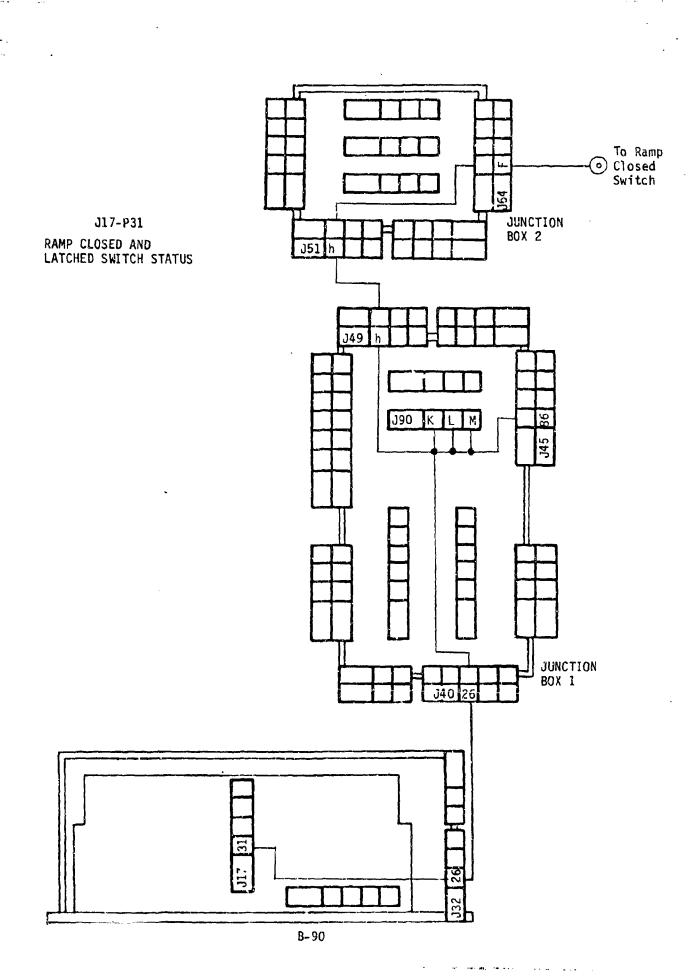


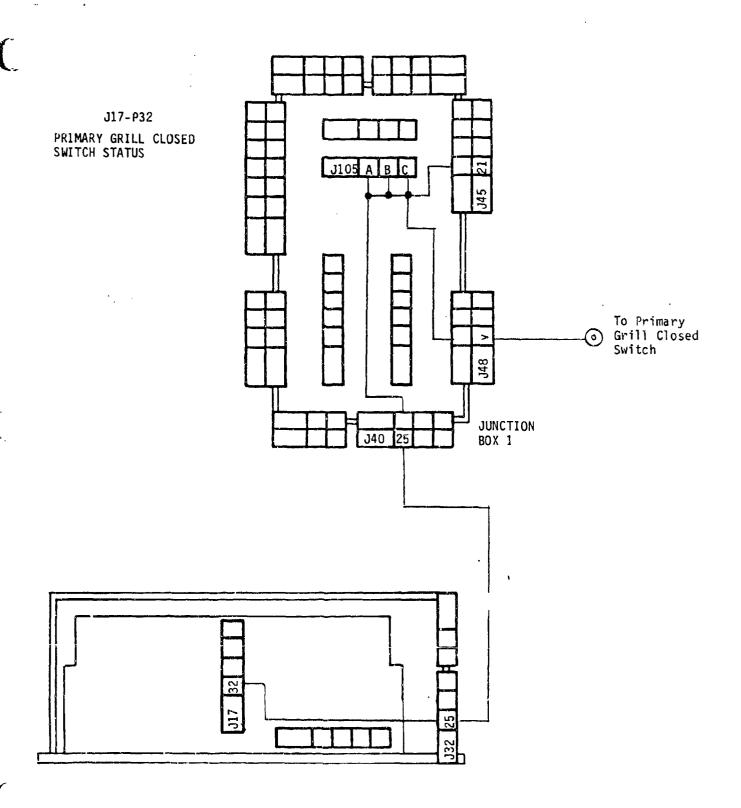




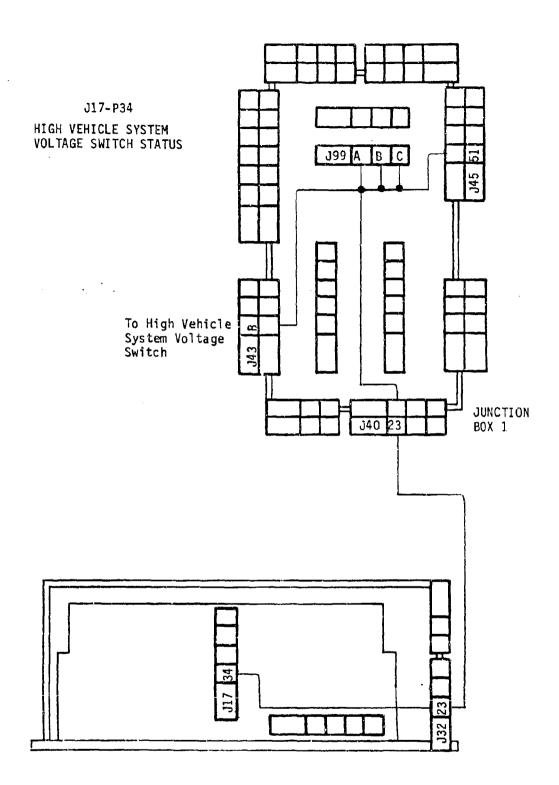


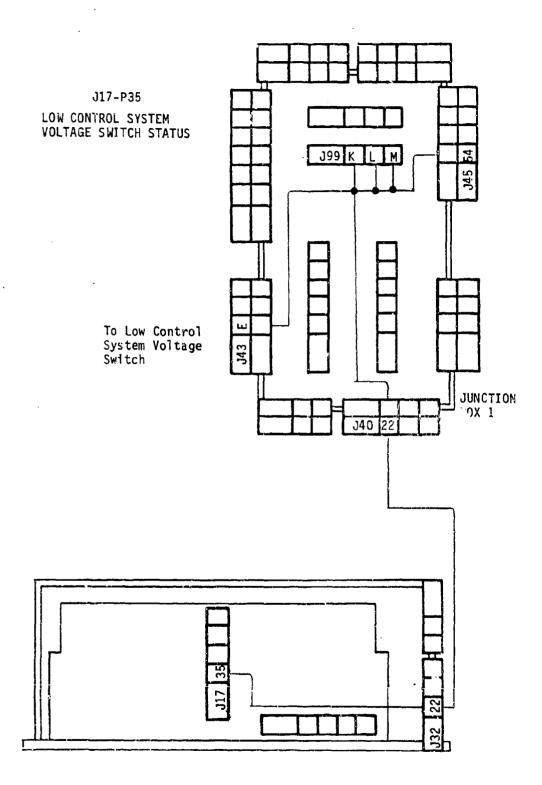


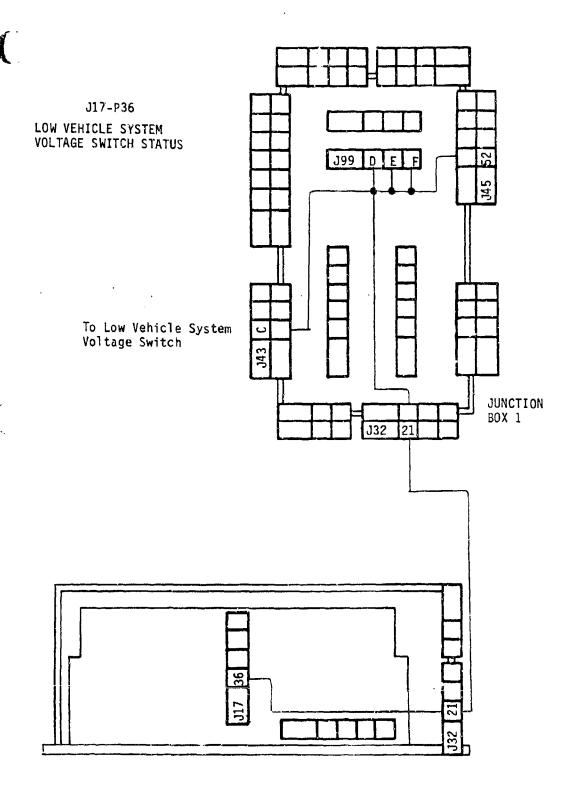


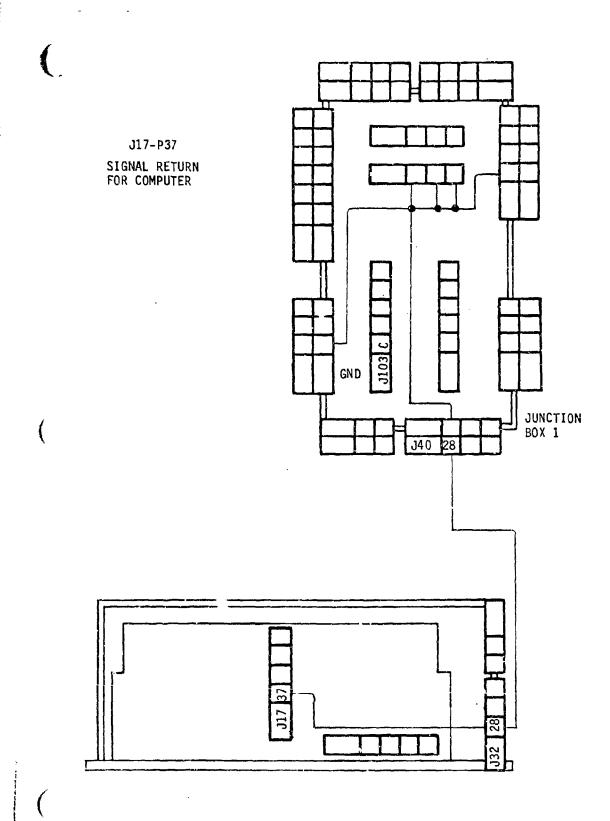


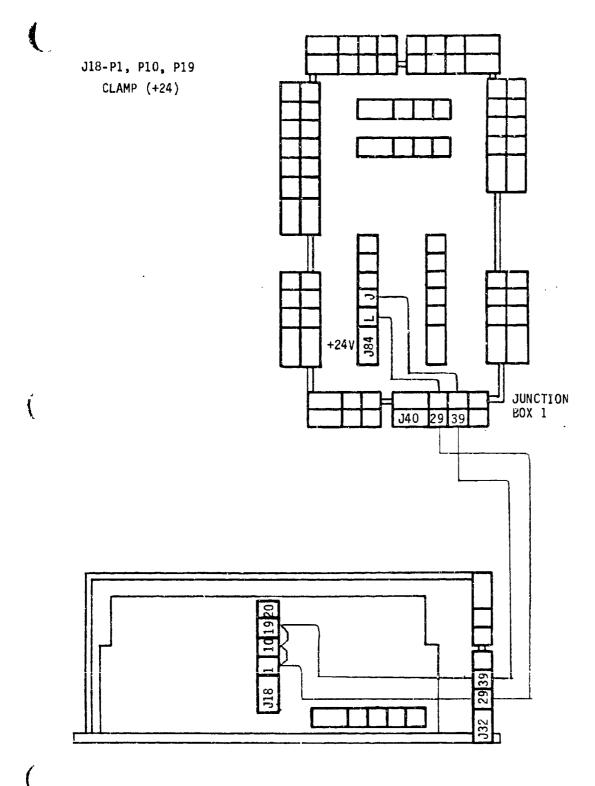
J17-P33 HIGH CONTROL SYSTEM VOLTAGE SWITCH STATUS JUNCTION BOX 1

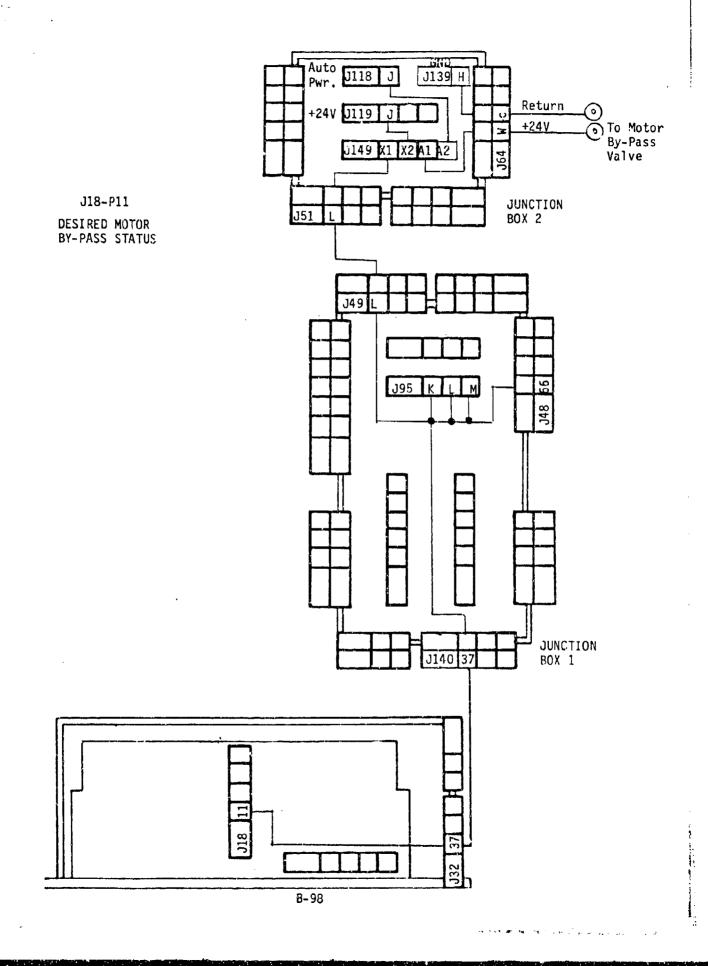


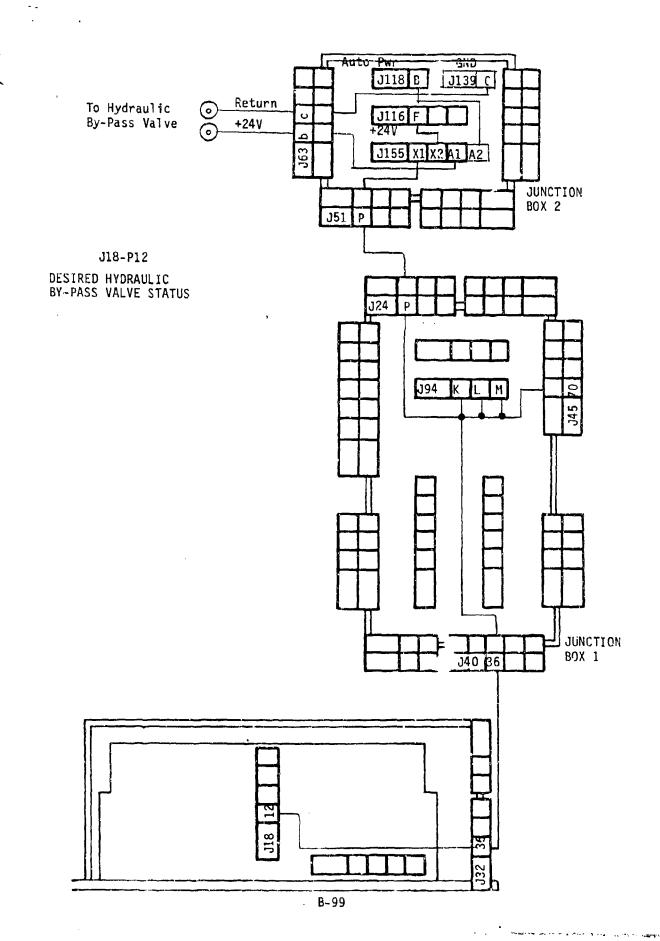


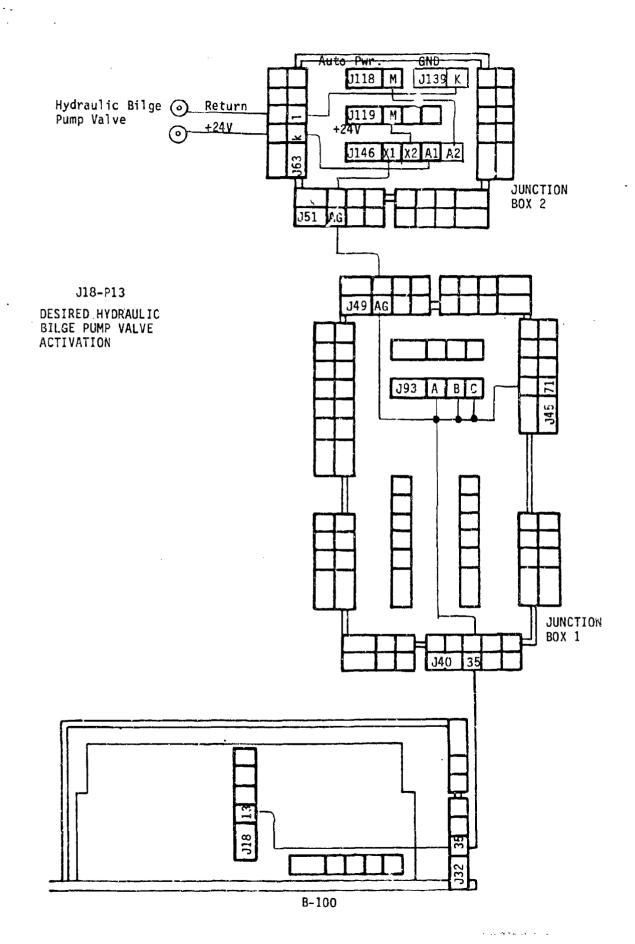


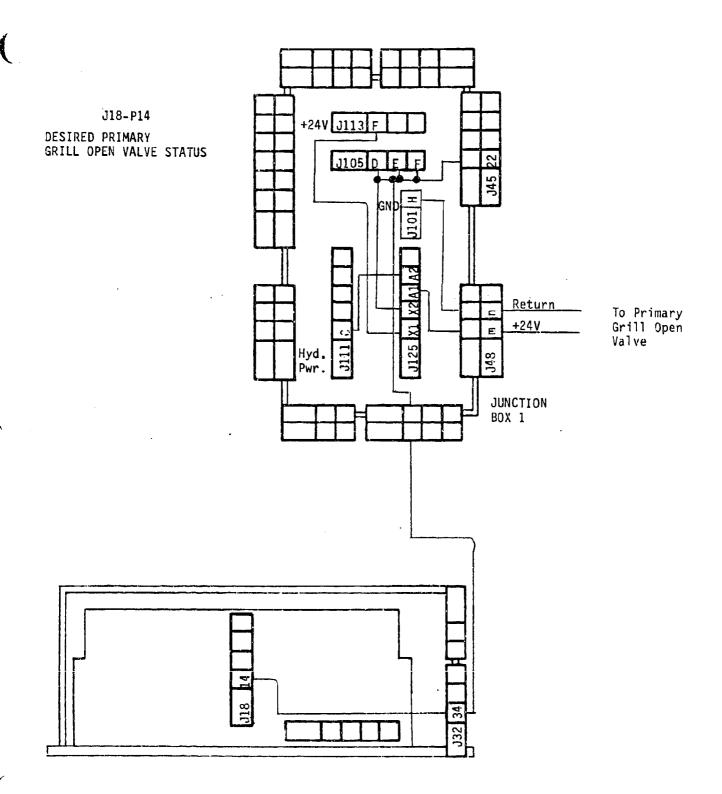


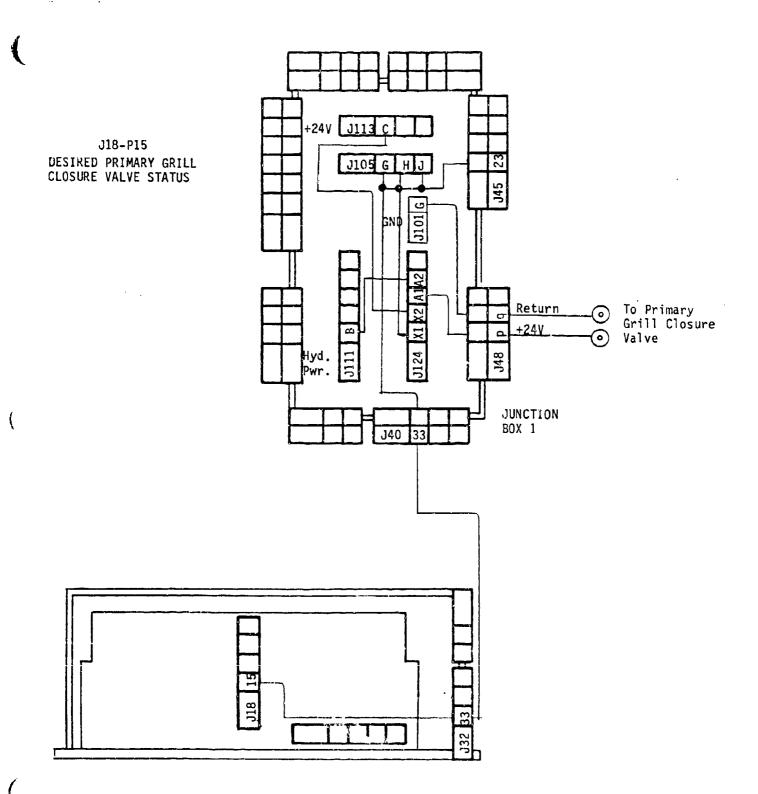


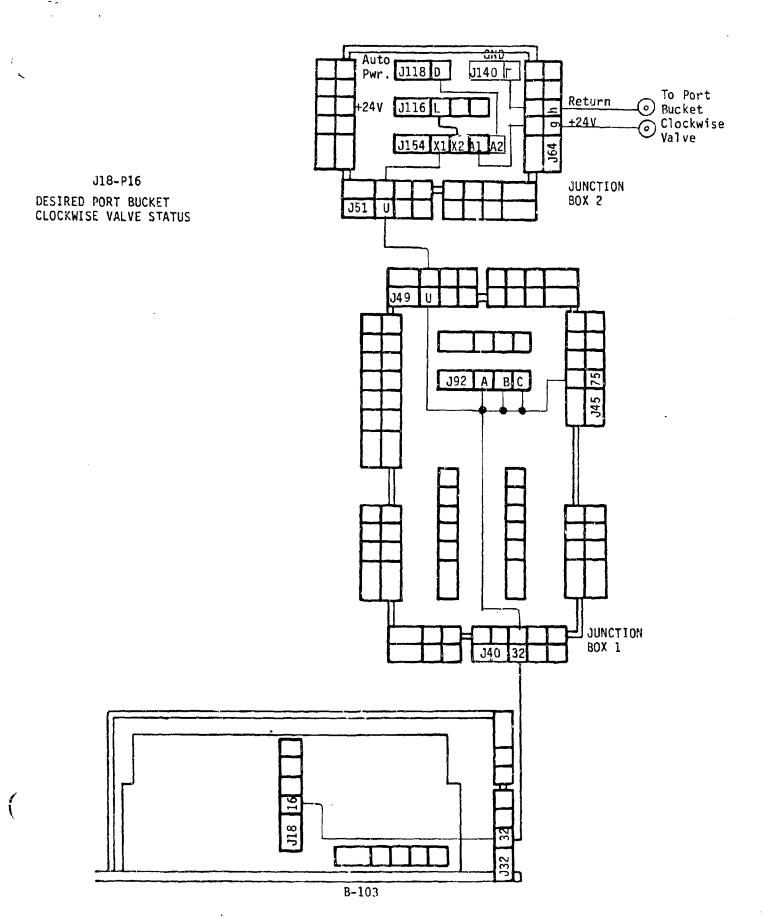


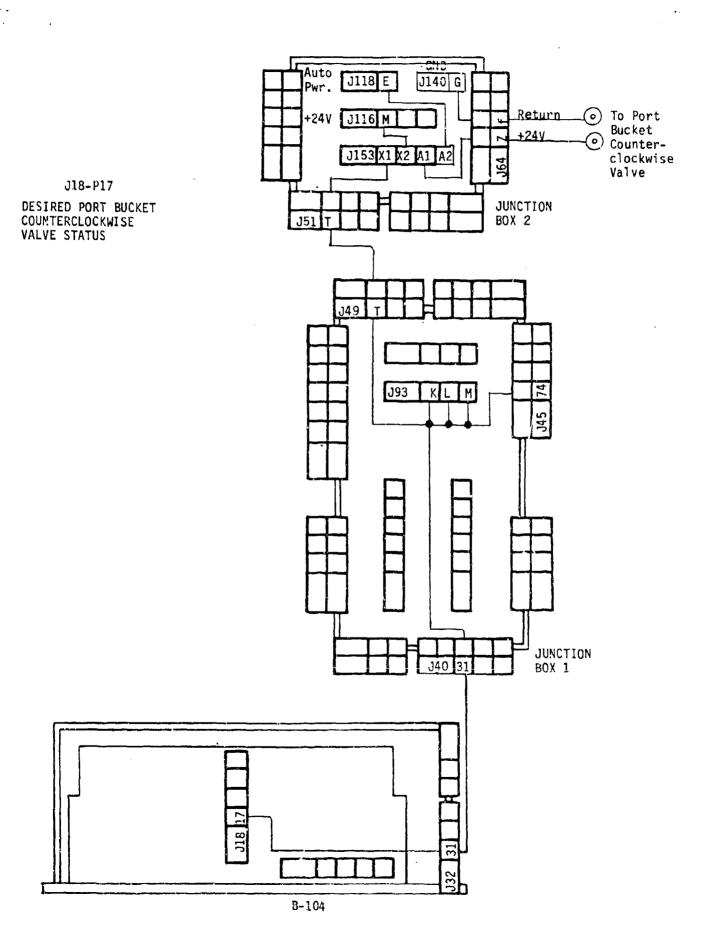


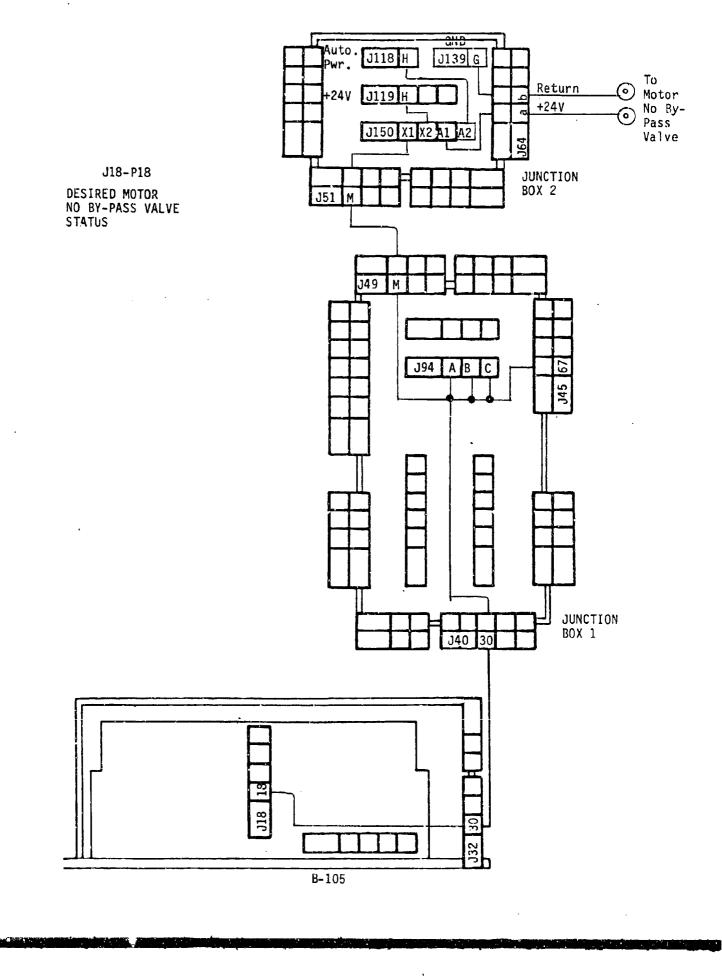


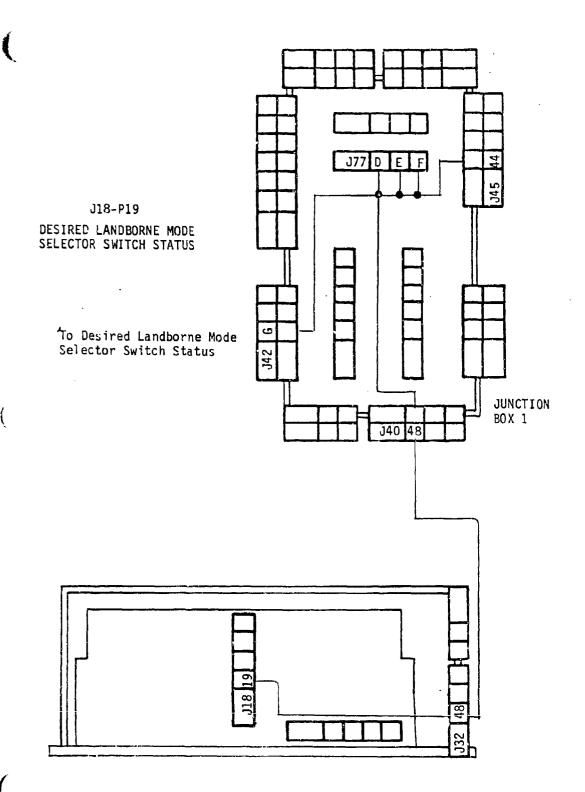


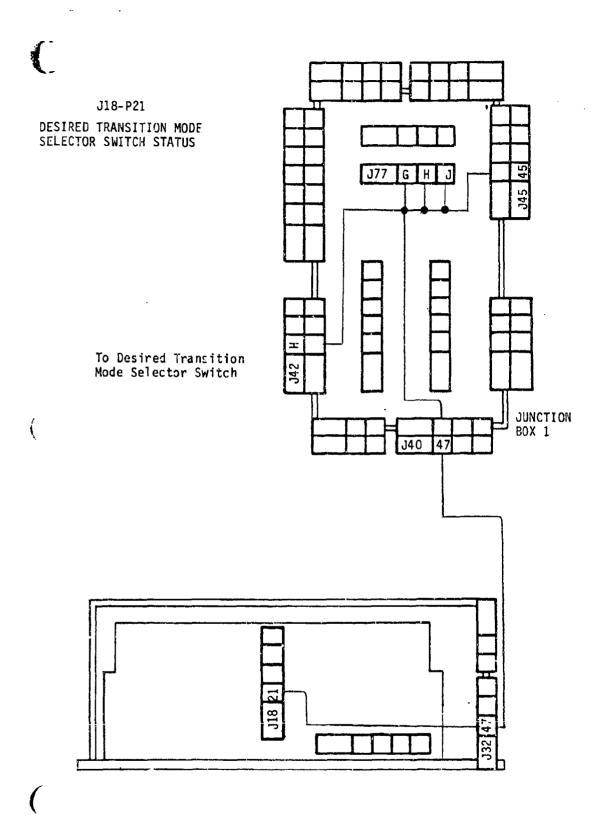


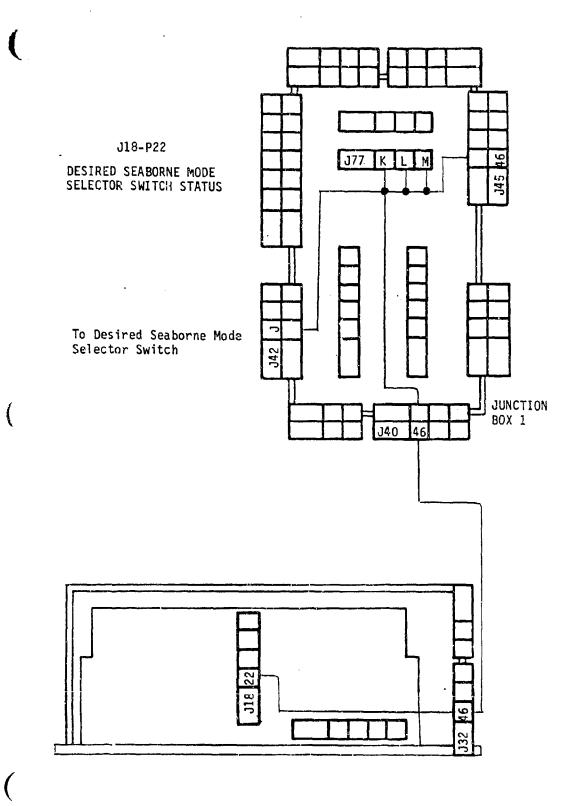


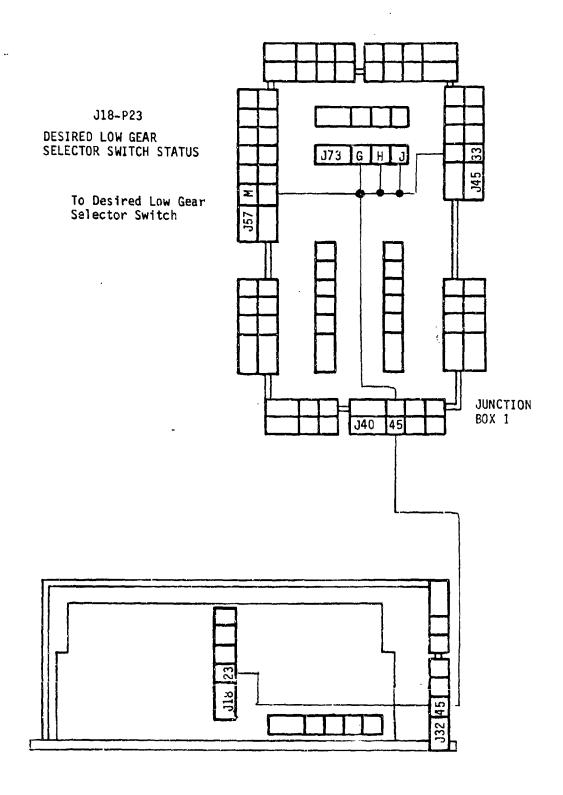




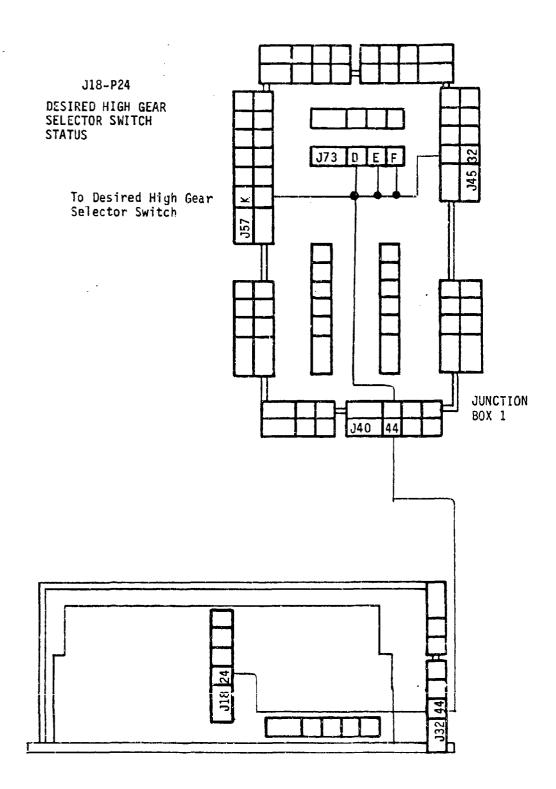


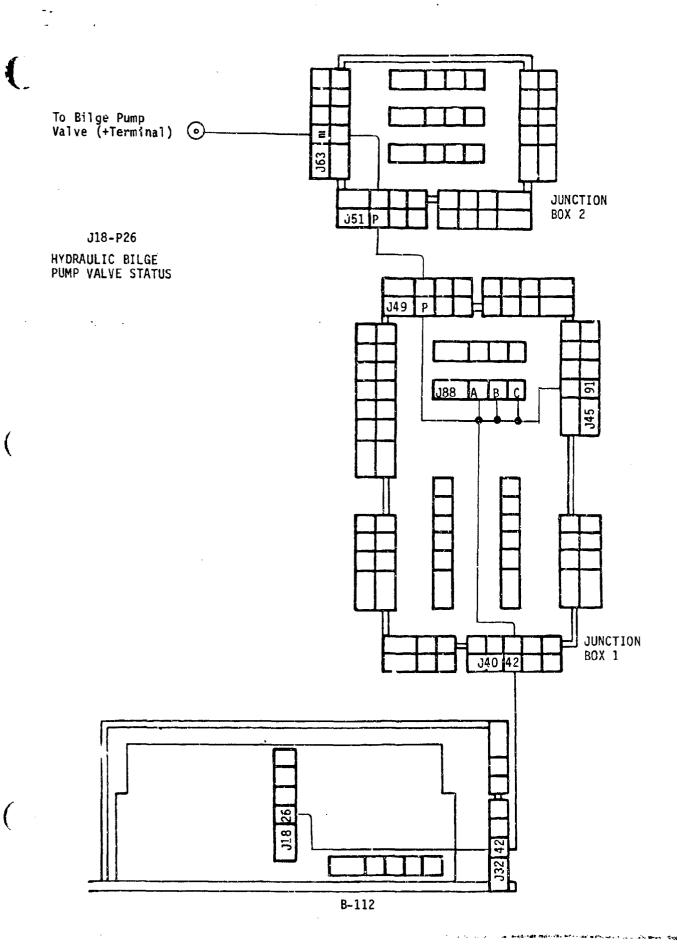


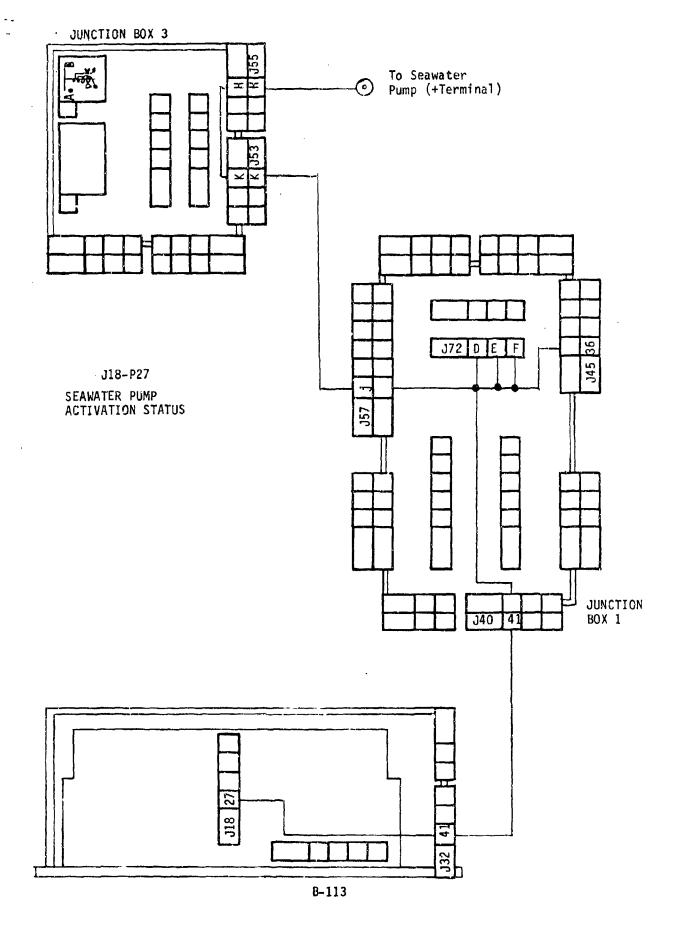




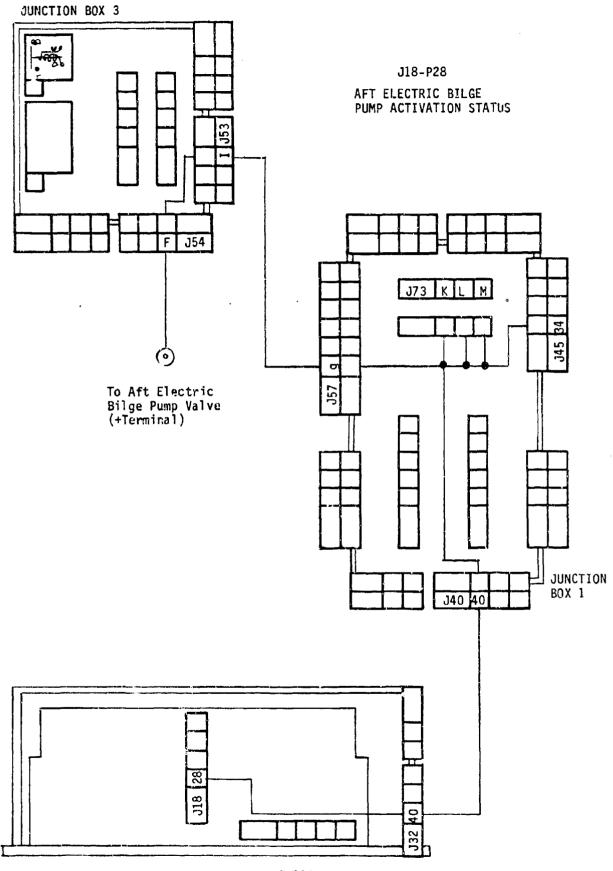
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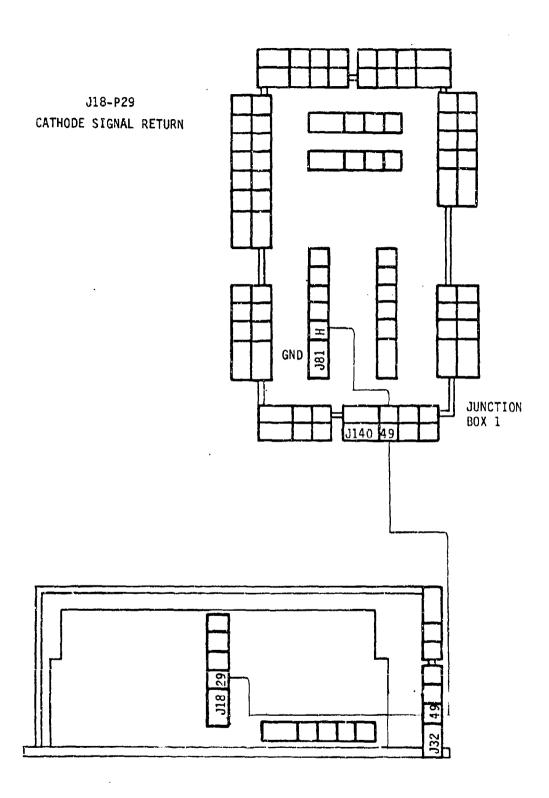




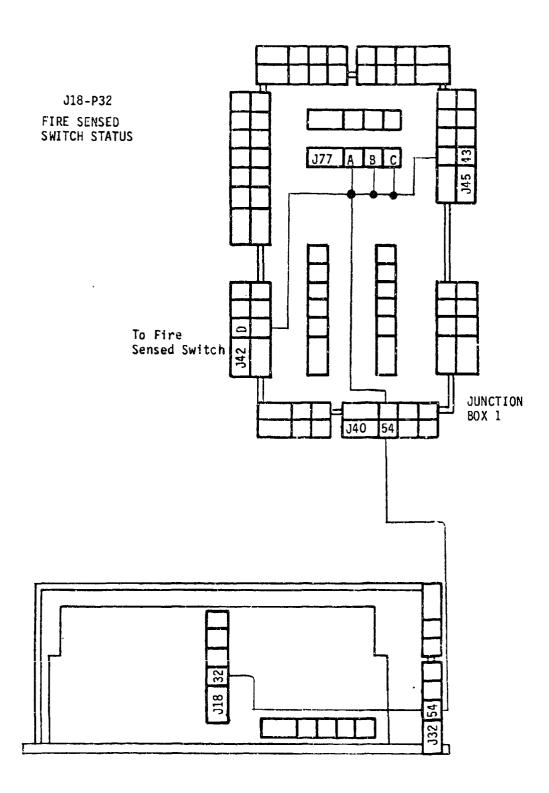


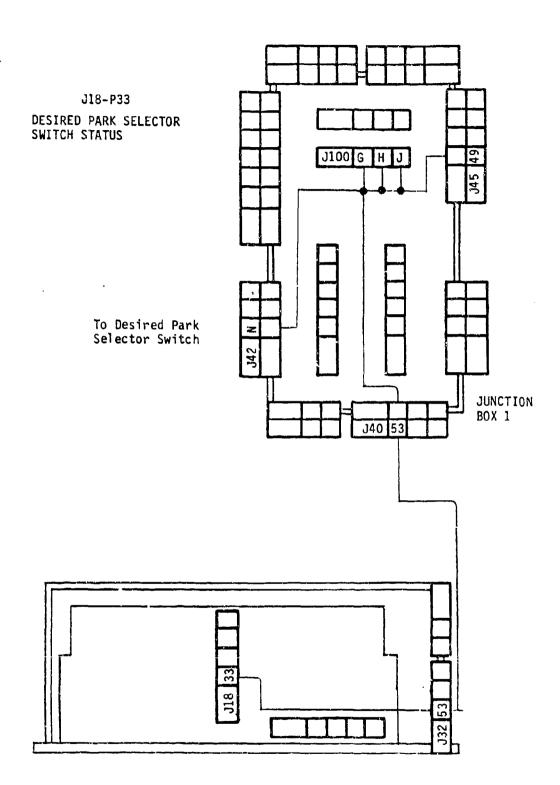
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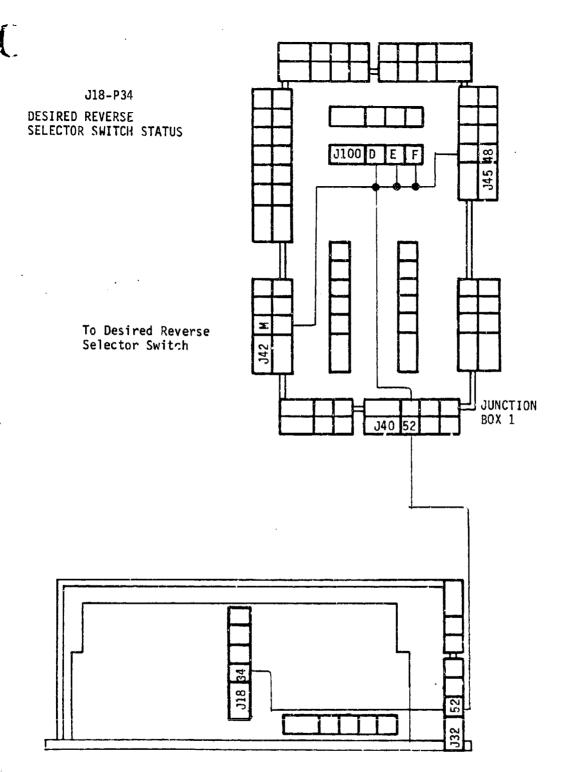


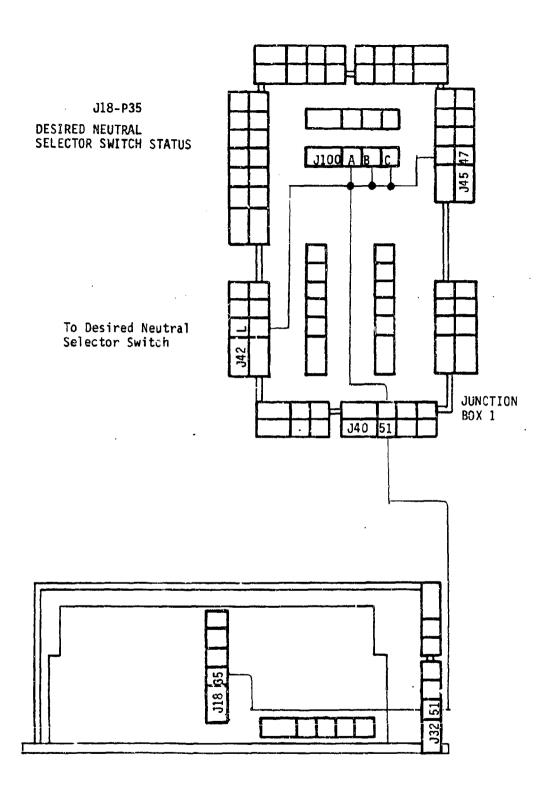


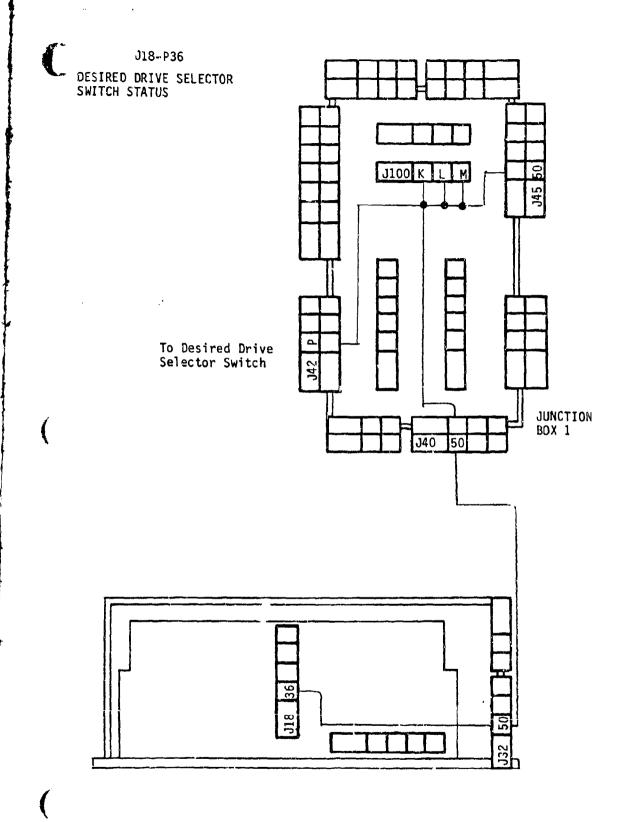
J18-P31 To Scavenge LOW SCAVENGE PUMP PRESSURE SWITCH STATUS Pump Pressure Switch JUNCTION BOX 2 J51 J49 J89 JUNCTION BOX 1 B-116

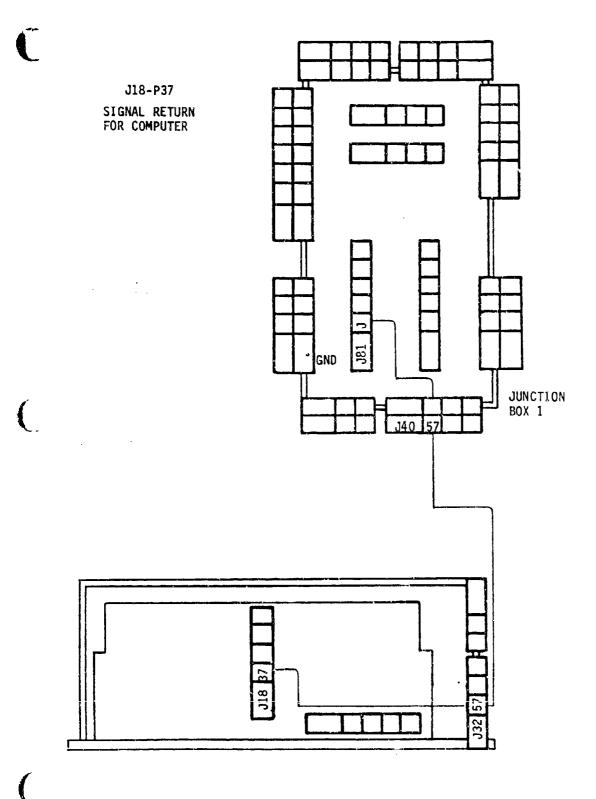




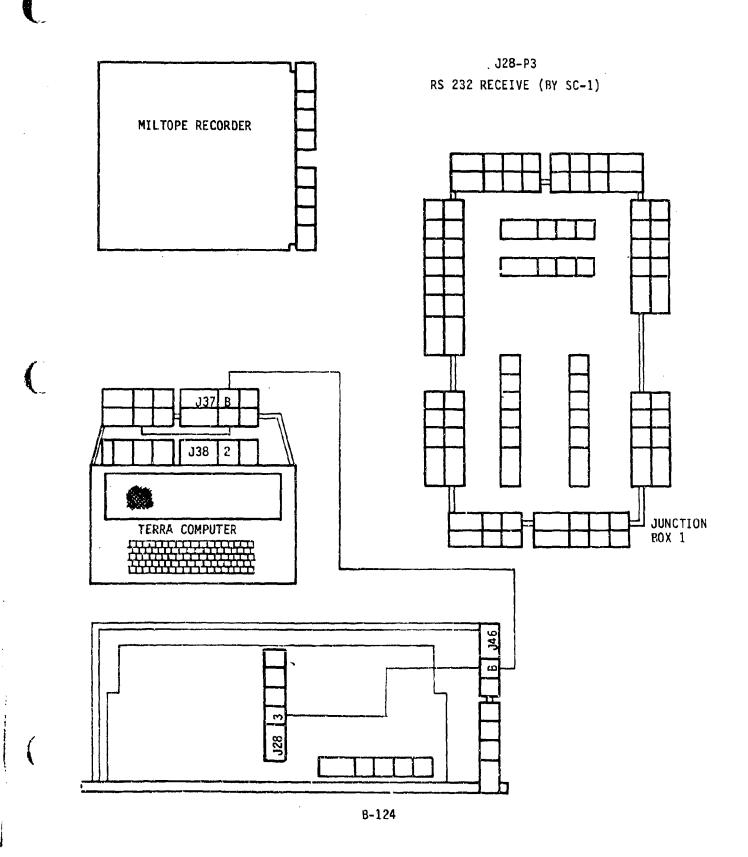


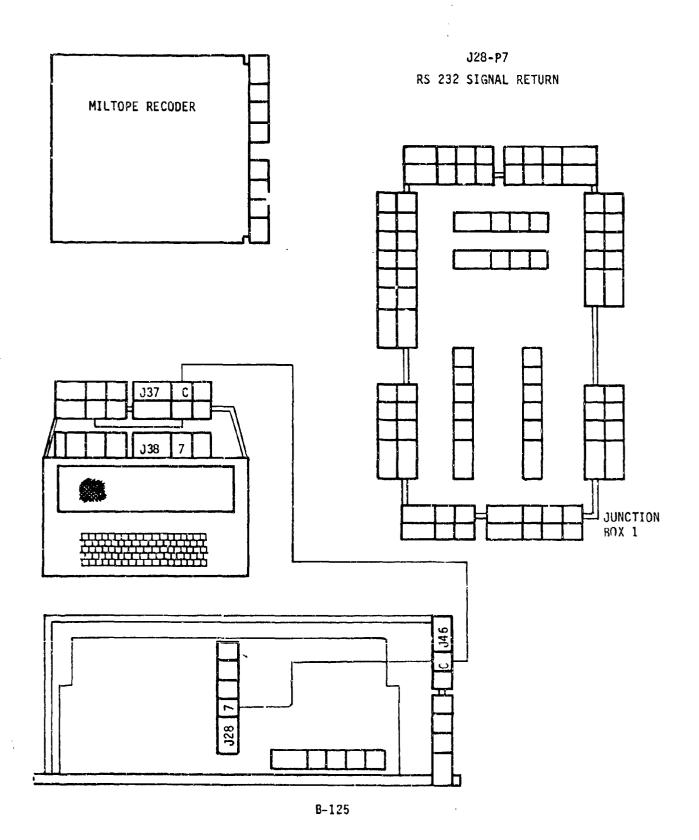


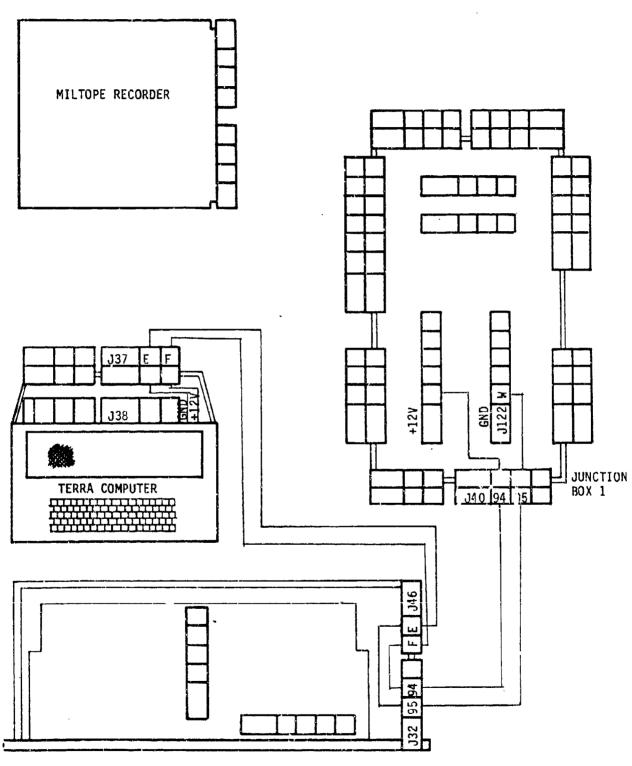




J28-P2 R5232 TRANSMIT (FROM SC-1) MILTOPE RECORDER JUNCTION BOX 1 TERRA COMPUTER B-123







B-126

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